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Delta DOP-100 New Functions Operating Instruction Manual

www.deltaww.com







DOP-100 New Functions

This chapter provides detailed descriptions for the new functions of the DOPSoft 4.00.

1.	W	indow taskbar ·····	2			
2.	Ac	Idress Conversion	8			
3.	Lo	ck element (pin) ·····	8			
4.	Fii	nd · · · · · · · · · · · · · · · · · · ·	9			
5.	Sc	reen Map······1	2			
6.	Mo	onitor IO·······1	5			
7.	Multiple actions ······20					
8.	Me	eter (1) / Meter (2) / Meter (3) / Meter (4) ······ 4	0			
9.	Ur	nit Conversion Settings ······5	8			
10.	Ar	nimated Graphic ·······6	9			
11.	Op	peration Log Table ·······7	1			
12.	Ala	arm Settings ······8	8			
12	.1	Alarm History Table 11	9			
12	.2	Active Alarm List ······ 13	6			
12	.3	Alarm Frequency Table 15	1			
12	.4	Alarm Moving Sign ······ 16	6			
13.	Ke	eypad······ 17	7			
14.	P	DF View	9			
15.	Er	hanced Recipe ······ 19	3			
16.	Ma	acro ·····21	1			
17.	М	ulti-language Input······21	4			
18.	Ar	nimated Boot Screen ······ 21	8			
19.	N٦	۲P 21	9			
20.	Ne	etwork application 22	0			
21.	SN	MTP	3			
22.	FΤ	⁻ P22	7			
23.	М	ulti-Lang input character count calculation ······23	2			



1. Window taskbar

The editing window of the DOPSoft has eight sections, which include a function list, toolbars, element windows (element list and element library), a property window, an output window, a screen management window, a screen editing window, and a status bar as shown in Figure 1.1.

The toolbars are standard Windows® programs so they work the same ways as that in Windows®. They are customizable; for example, the element toolbar can be moved to the left side of the screen. You can drag the toolbars to the position based on your preference as shown in Figure 1.2.

DOPSoft - NewProject - [1 - Screen_1]		- C ×
: File Edit View Element Screen T		
Project # X		Properties a x
B · · ·		Screen_1 • 0
Screen		Screen Name Screen_1 Screen Properties Detail
Communication		Background Color RGB(252, 252, 252)
- 🖉 Tag	The existing membred with wellow detted line is the	Screen Lock Bt None
a) Alarm ⊛ TRecipe	The section marked with yellow dotted line is the	D Screen Hacro
- History Buffer	to all and an and did do by DODO off	Screen Open Mac 0
	toolbars provided by DOPSoft.	Screen Close Macr 0
- Account Settings - X Configuration		Screen Cycle Macr 0
		Width 1024
Program		Height 600
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Postala		
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-		
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Figure 1.1 DOPSoft toolbars

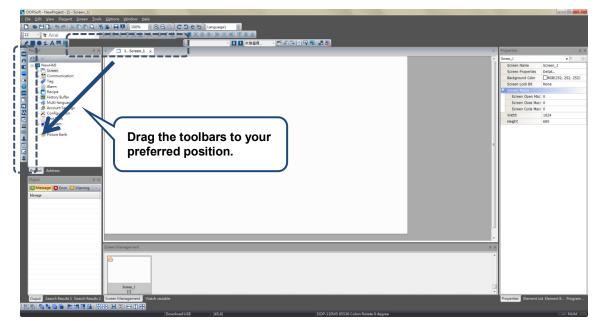


Figure 1.2 DOPSoft draggable toolbar



Function list

As shown in the following figure, DOPSoft provides nine function categories.

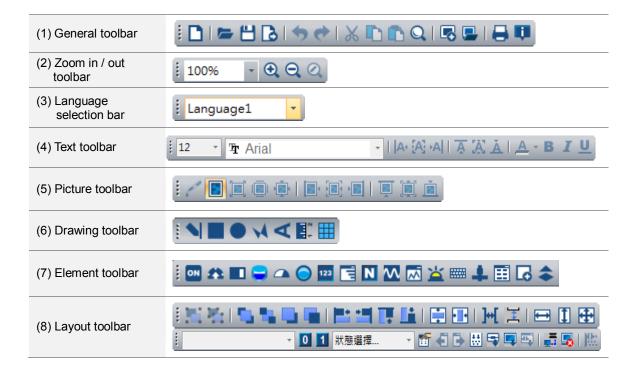
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- Account Settings - X Configuration									Cycle Macr 0
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Program Main								negric	600
Picture Bank									
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Screen Mar	agement							3 ×	
	icreen_1							100	
	[1]							*	
Ouput Search Results 1 Search Results 2 Screen Ma								Properties 8	Element List Element B., Program



Toolbar

DOPSoft provides 8 toolbars.

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Project a x	4 1-Screen_1 ×	\	p Properties a x screen_1 v 0 +
			Screen Name Screen_1
			Screen Properties Detail
	((0)	Background Color RGB(252, 252, 252)
(6)	(7)	(8)	Screen Lock Bt None
			Screen Hacro
			Screen Open Mac 0
- Account Settings			Screen Close Macr 0 Screen Cycle Macr 0
-X Configuration			Width 1024
			Height 600
Project Addees Popul a x Mesage Coror Warring a Mesage			
(8)	Even Management		x
	Download:USB	[328,167] DOP-110WS 65536 Colors Rotate 0 degree	CAP NUM SCRL



Output window

This window records users' editing operations and output messages after the screen data compilation. When you execute the compile function, DOPSoft starts compiling the data; when the compilation completes, you can find the filter that enables you to promptly check errors and warning messages. The [Message] tab displays all compiling records; the [Error] tab displays the error message only; the [Warning] tab displays the warning messages only (see Figure 1.3). By clicking on the error message, you are automatically directed to the screen where the error element is located.

Ouput	# × Ouput		ąΧ	Ouput		Ļ	×
Message 🐹 Error 🕠 Warning	🛛 🗵 Mess	age 🔀 Error 💭 Warn	ing 🗙	🚺 Message	Error 💭 Warn	ning į	×
Message	Message			Message			*
Compiling all data	🗙 Elemer	nt address input error		🔥 The picture	's size exceeds the eleme	mt size.	
🕨 Save all data				🗥 The picture	's size exceeds the eleme	ent size.	Ξ
Check all error				🗥 The picture	's size exceeds the eleme	ent size.	
Compile				🗥 The picture	's size exceeds the eleme	ent size.	
Application				🔥 The picture	's size exceeds the eleme	ent size.	
Compiling submacro				🗥 The picture	's size exceeds the eleme	ent size.	
Compiling Initial Macro OK				🗥 The picture	's size exceeds the eleme	ent size.	
Compiling Background Macro OK				🔥 The picture	's size exceeds the eleme	mt size.	
Compiling Clock Macro OK				🔥 The picture	's size exceeds the eleme	mt size.	
Screen : 1				🔥 The picture	's size exceeds the eleme	mt size.	
Compiling Screen Open Macro OK				\land The picture	's size exceeds the eleme	mt size.	
Compiling Screen Close Macro OK				\land The picture	's size exceeds the eleme	mt size.	
Compiling Screen Cycle Macro OK				\land The picture	's size exceeds the eleme	mt size.	
Numeric Entry (213, 99)				\land The picture	's size exceeds the eleme	mt size.	
🗙 Element address input error				🗥 The picture	's size exceeds the eleme	ent size.	
Create Font success				A The picture	's size exceeds the eleme	ent size.	
Compilation failed				\land The picture	's size exceeds the eleme	ent size.	
				A The picture	's size exceeds the eleme	mt size.	
				🔥 The picture	's size exceeds the eleme	mt size.	
				🔥 The picture	's size exceeds the eleme	ent size.	
				🔥 The picture	's size exceeds the eleme	ent size.	Ŧ
				•			
Ouput Search Results 1 Search Res	sults 2 Ouput	Search Results 1 Searc	h Results 2	Ouput Sea	arch Results 1 Searc	h Result	ts 2
	Fie	aure 1.3 Output wi	ndow				

Figure 1.3 Output window



Project window

The project window has two tabs, [Project] and [Address].

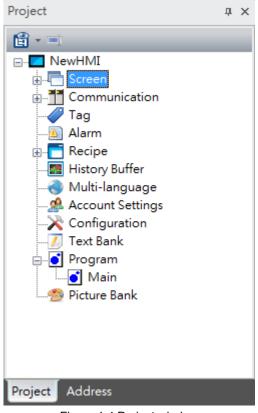
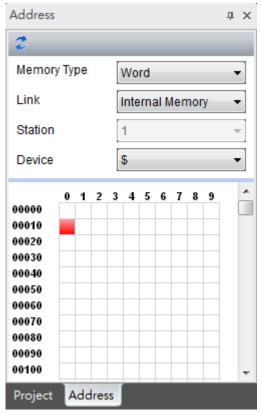


Figure 1.4 Project window

[Project] displays the frequently used functions in the option toolbar. You can double-click the project window to open the editing window.



[Address] displays the register addresses used by the editing screens. Apart from the memory addresses used by the screen elements, the address list shows all the addresses used for the control section, status section, alarms, recipes, history in the global setting.



Note: the external PLC address display is currently only available on Delta PLCs.

Figure 1.5 Address list window



2. Address Conversion

[Address Conversion] allows you to change the address. You can choose single or multiple elements for address conversion.

Select	Element Name	Address	The Converted Address	Address Name	Memory Types	
2	Numeric Entry_001	\$10	\$10	Element write address	Word	
	Numeric Entry_002	\$10	\$10	Element write address	Word	

Figure 2.1 Address conversion

3. Lock element (pin)

When you create elements of multiple layers, the Lock element function allows you to pin the element so it is defined as the background and cannot be selected with the cursor. With this function, you will not mistakenly drag the wrong element at the bottom layer and you can click on the right element you intend to select.

Once the element is pinned, you will see a pin icon at the element's upper right corner.



Figure 3.1 Element pin

You can unpin the element by simply clicking the pin.



4. Find

To find the specified text and address, you can go to [Edit] > [Find] or use the keyboard shortcut CTRL + F provided by the system. This function allows you to quickly find the result. The search function also added the data type options so the results are more accurate and can be categorized in the displaying result window. After you click the Find function, please enter the content to be found and then go to the [Options] section to select [Current Screen] or [All Screens] in the options. The [Type] search options are [Text], [Element read address], [Element write address] and [All Addresses]. In addition, the selectable search options for [Data Type] are Bit, WORD, or DWORD. See Figure 4.1.

Find				×
Find What		•		Find
Options © Current Screen @ All Screens	Type Text Element re All Address	rite address	Data Type None Bit WORD DWORD	Cancel
Find Options Image: Match whole word only Image: Multi-language search		Result Options Find result Find result 	s in 1 window	

Figure 4.1 Find

Set the search content type and data type and set to show the result in [Search Results 1] or [Search Results 2] window. Next, click the Find button and the system starts searching for the matching contents.



When the contents are found, the found elements are output to the specified result window. If you click the items in the output window, the cursor automatically specifies the given element as shown in Figure 4.2.

Search Results 1 a x	Search Results 2 🛛 📮 🗙
×	×
Contents	Contents
History Buffer No. 0 Element write address \$10 is at (241, 101). Element write address \$10 is at (242, 160).	element text ""Meter"" in (282, 284)
Ouput Search Results 1 Search Results 2	Ouput Search Results 1 Search Results 2

Figure 4.2 Output result



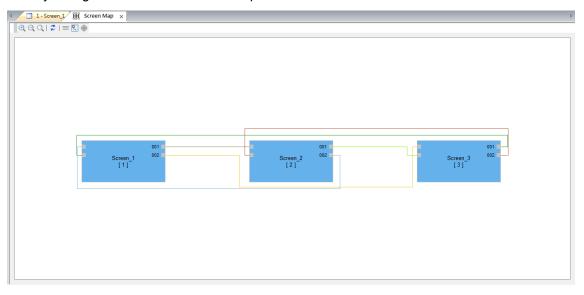
The detailed setting for the Find function is as follows:

	Find					
Find What	Enter the content to be found	d.				
Options	Current Screen	Only search in the currently editing screen and compare all the elements in the current screen. Then output the matching contents to the output window. You can double-click the items in the output window to find the searched elements.				
Options	All Screens	The system scans all screens to compare every element in each screen, and then display the matched result in the output window. You can also double-click the items in the output window to find the searched elements.				
	Text	Compare the element text.				
Туре	Element read address	Compare the element read address.				
туре	Element write address	Compare the element write address.				
	All Address	Compare the read and write addresses of the element.				
	None	When you select "None", it searches for the memory address without a particular data type specified.				
Data Type	Bit	Search for the Bit type address.				
	WORD	Search for the WORD type address.				
	DWORD	Search for the DWORD type address.				
Find	Match whole word only	Compare all input contents when searching. If this box is unchecked, the results include the input contents that are perfectly and partially matched; on the other hand, if it is checked, the results only show the input content that is perfectly matched.				
Options	Multi-language search	This is only available for searching texts. If this box is unchecked, the HMI only searches for the contents based on the currently used language; if the box is checked, the HMI searches for the contents for all languages.				
Result	Find results in 1 window	Output the search results to [Search Results 1] window.				
Options	Find results in 2 window	Output the search results to [Search Results 2] window.				



5. Screen Map

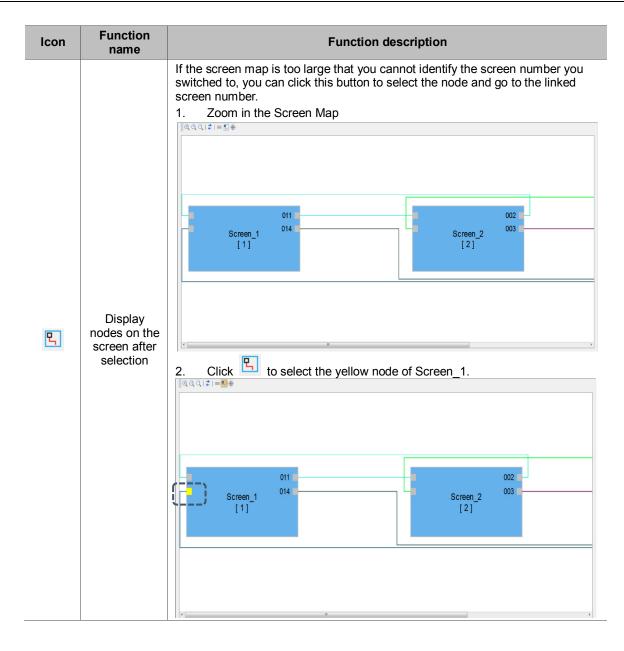
The [Screen Map] enables you to view the linkage between each screen and also allows you to directly change the screen number as required.



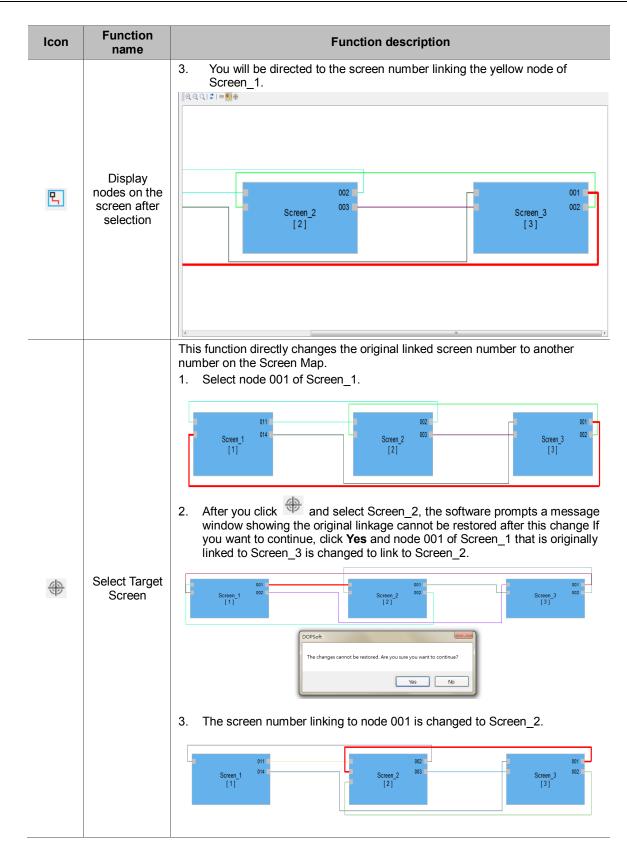
The toolbar for [Screen Map]:

Icon	Function name	Function description
€,	Zoom In	Zoom in to make the screen map appear larger.
Q	Zoom Out	Zoom out to make the screen map appear smaller.
Q	1:1	Show the screen map in the original size.
\$	Update	If you add, modify, or delete any screen button, the background color shows in pale yellow when you open the screen map, meaning the linkage between screens have been changed; meanwhile, you can click this button to update all screen numbers.
=	Multiple Selection	The multiple selection function enables you to select multiple screen links. When selected, the links are in red.











Monitor IO 6.

The Monitoring IO function allows users to monitor values of the I/O devices.

Right click on the On-line Simulation screen and select [Monitor IO], a window pops up (shown in

Figure 6.1) and you can start setting and monitoring the I/O devices.



Figure 6.1 Right click to go to [Monitor IO].

Table 6.1 Monitor IO property description

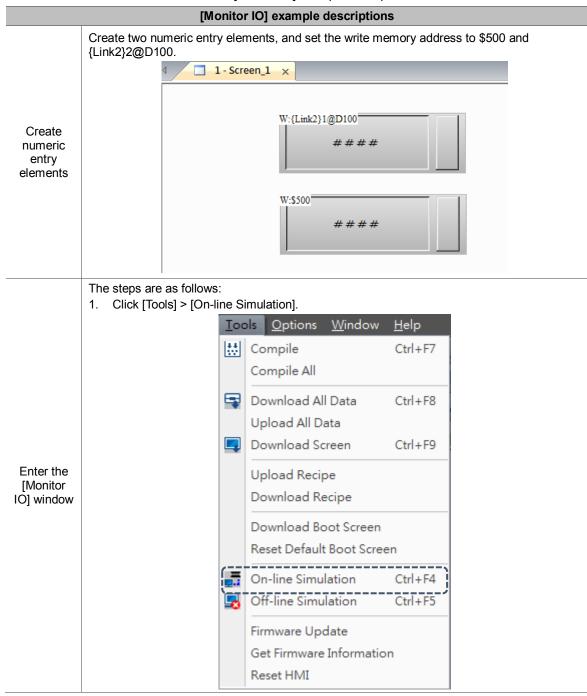
OP-100 Series IO I	Monitor		×
-			
Device Addr.	Device Value	Value Format	New item
			New blank
			Delete item
			Start Monitor
			Can Marilan
1			Stop Monitor

New item	Create a new monitoring address with an input box.
New blank	Add a new monitoring column. Different from [New item], you can directly copy and paste the monitoring address instead of using an input box to enter the address.
Delete item	Delete the selected monitoring address.
Start Monitor	Click this button to start monitoring.
Stop Monitor	Click this button to stop monitoring.
Device Addr.	Available options are internal memory and controller register address.
Device Value	Display the values of the monitoring internal memory or controller register and it also promptly changes the values. If you are using Delta PLCs, setting the length is not required.
Value Format	There are four types of value format that can be set, which are signed decimal, unsigned decimal, hexadecimal, and bit.

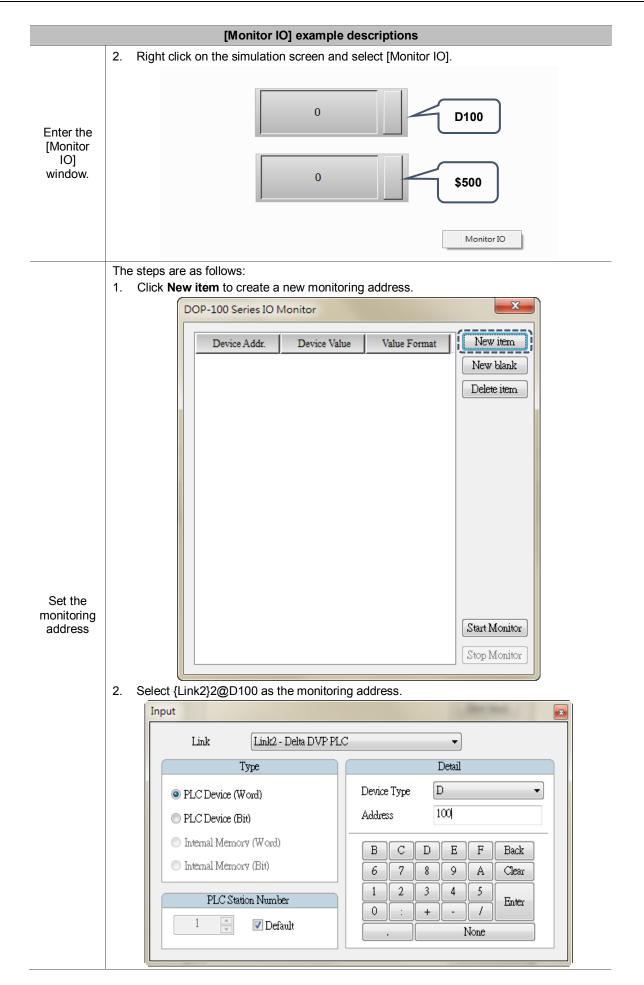


The following section is the example of [Monitor IO].

Table 6.2 [Monitor IO] example descriptions







[Monitor IO] example descriptions								
3. After setting completed, the screen is as follows:								
		DOP-100 Series IO Monitor						
		Device Addr. Device Value						
		{Link2}1@D100	Unsigned Decimal New blank					
			Delete item					
Set the monitoring								
address			Start Monitor					
			Stop Monitor					
	4.	Repeat Step 1 and Step 2 to set anothe						
		Input	×					
		Link Internal Memory	•					
		Туре	Detail					
		PLC Device (Word)	Device Type \$					
			Address 500					
		PLC Device (Bit)	Adoress					
		 Internal Memory (Word) 	B C D E F Back					
		Internal Memory (Bit)	6 7 8 9 A Clear					
		DI C Chuis M 1 - 1 -						
		PLC Station Number	0 : + - / Enter					
		1 💽 Default	. None					



	[Monit	or IO] example de	scriptions		
	Press Start Monitor to start	monitoring.			
	DOP-100 Series IO				
		1	((
	Device Addr.	Device Value	Value Format	New item	
	{Link2}1@D100		Unsigned Decimal	New blank	
	\$500		Unsigned Decimal	Delete item	
Start					
monitoring					
the address					
				Start Monitor	
				Stop Monitor	
)	
	The [Monitor IO] window ena values of {Link2}2@D100 ar	ables you to promp	tly monitor the set a	ddress and monitor th	ie
	device values in this window	ia \$500 in the [Dev /.	ice valuej columna:	s well as moullying th	е
	D100	[DOB 100 5	eries IO Monitor		x
– <i>– –</i>	123			Value Format New item	
Execution results			-	Unsigned Decimal New blank	
			55	Delete item	1
	55				
	¢=00				
	\$500				



7. Multiple actions

The **Multiple actions** button provides multiple actions. You can define the actions to execute when you press, release, or long press the button. You can use this function to replace the complicated programming process for the macro to trigger the button action.

Available button actions in the [Multiple actions] settings are as follows:

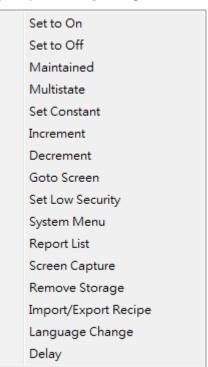


Figure 7.1 Button actions available in the Multiple actions function

Note:

- 1. Each press, release, and long press action can add up to 32 sub-actions, thus one multiple actions button can execute up to 32 x 3 actions.
- 2. The System Menu can only be the last action. (You cannot add any action following the System Menu).
- 3. One multiple actions button can only have one page change action (including Goto screen
- Previous Page).
- 4. If the button is set with a macro, the execution of the macro is invalid.

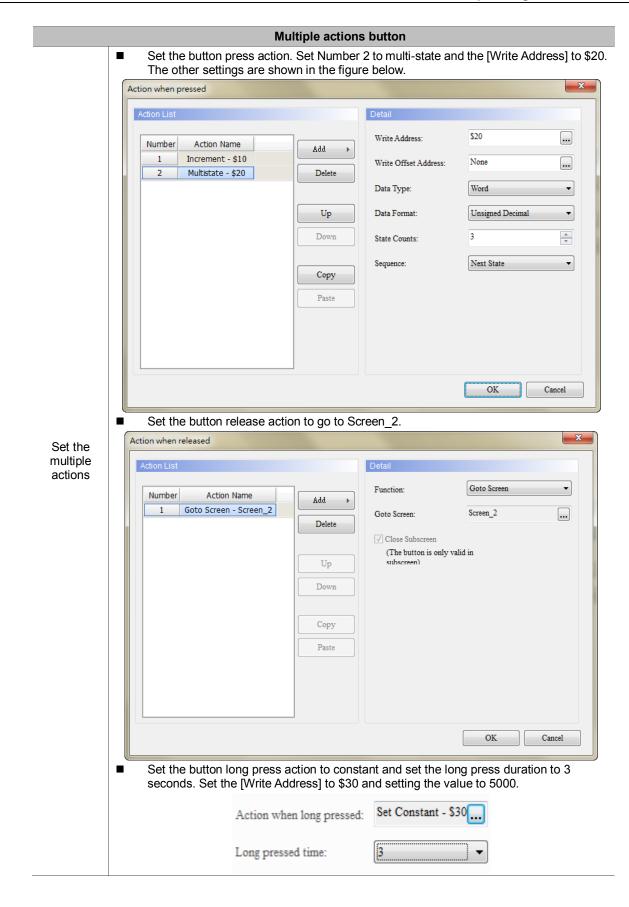


Example descriptions for the multiple actions function is as follows:

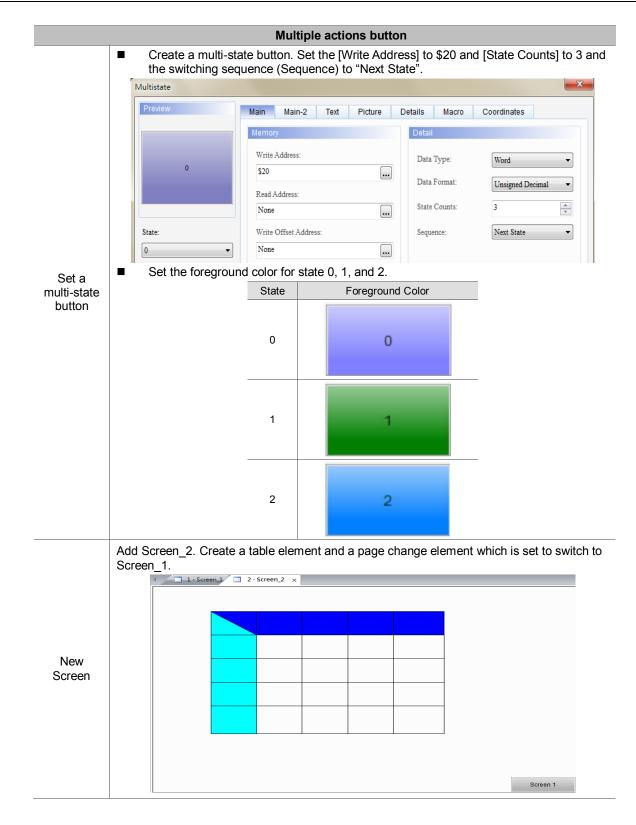
Multiple actions button										
	Create a multiple actions button.									
	Multiple actions									
Set the multiple actions										
	Delete Data Type: Word Up Data Format: Unsigned Decimal Down Increase/Decrease: 3 Copy Paste Imit: Mathematical Copy Down Imit:									

Table 7.1 Multiple actions button example descriptions

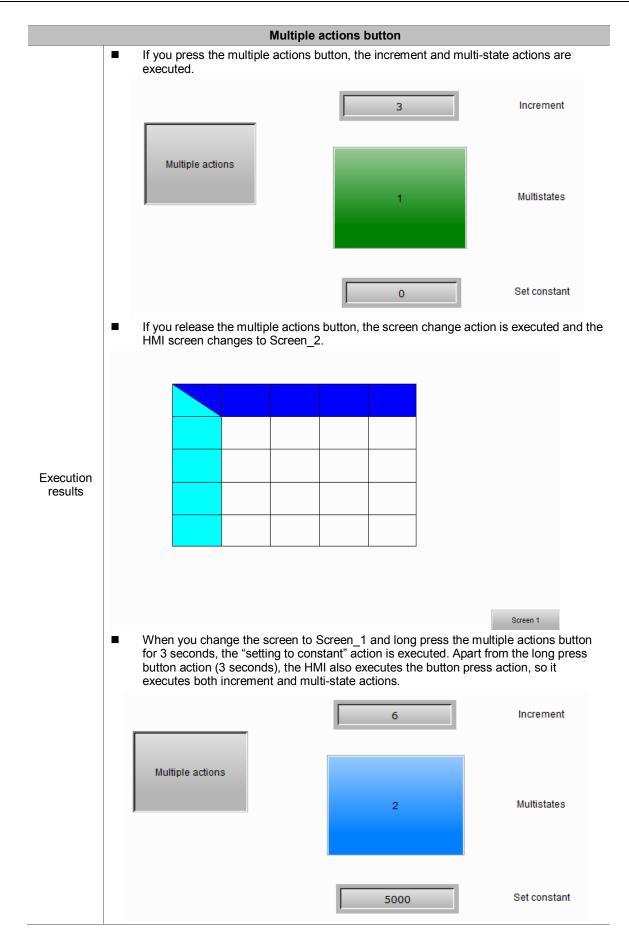




	Mu	Itiple actions button
	Action when long pressed	
	Action List Number Action Name 1 Set Constant - \$30	Add Write Address: \$30 Delete Write Offset Address: None Delete Data Type: Word Up Data Format: Unsigned Decimal Down Set value: 5000 Copy Paste
•	Create a numeric display e changed value after the inc	OK Cancel
	Preview	Main Main-2 Text Details
Set numeric display	1234 Create a numeric display e	Memory Read Address: \$10 Read Offset Address: None Image: None Image: None Image: None Image: None Image: None Rement which read address is \$30 for displaying the
elements	changed value after the set Numeric Display	tting constant action is executed.
	Preview	Main Main-2 Text Details Memory
	1234	Read Address: \$30







Multiple actions									×
Preview	Main	Main-2	Text	Picture	Det	ails	Coordinates		
	Style					Action			
	Style:		Sta	andard 🔻		Action	n when pressed:		
	Foregrour	id Color:		•		Action	1 when released:		
						Action	1 when long pressed:		
State:						Long p	pressed time:	0	•
Language:									
Language1 👻									
Element description:									
Multiple actions_009									
								OK	Cancel

The figure below is the property setting screen when you double-click the multiple actions button.

Figure 7.2 Property for Multiple actions button elements

Multiple actions button				
Function page	Description			
Preview	The multiple actions button can only be used for viewing the multi-language display data because the element does not have multiple states.			
	Set the element style and element foreground color.			
Main	Set the actions when you press, release, and long press the button as well as the long press time.			
Main-2	Set the transparency value, enable the animation, and enable the anti-aliasing function.			
Text	Set the text content, font, size, color, format, zoom, and alignment type.			
Picture	Set the picture bank name, alignment, graphic extension, and specifies the transparent color of the image.			
Details	Set the interlock state, interlock address, invisible address, user security level, as well as setting to low security level after the input.			
Coordinates	Set the X and Y coordinates, width, and height of the button element.			



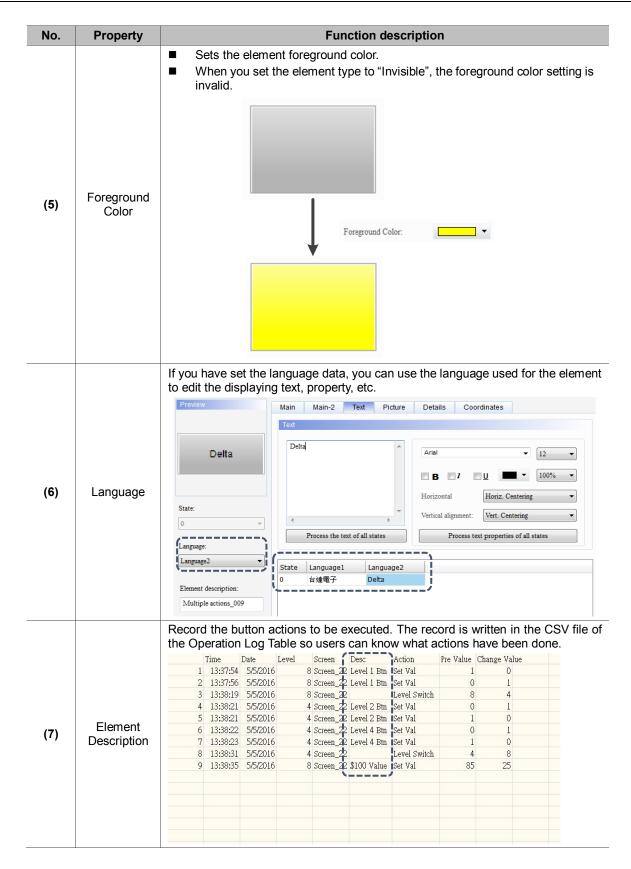
■ Main	
Multiple actions	×
Preview (4) Main Main-2 Text Picture C Style Style: Standard Foreground Color: (5) State: 0 Language: Language1 (6) (7) (7)	Details Coordinat (1) (2) Action (1) (2) Action when pressed: Action when long pressed: Long pressed time: (3)
	OK Cancel

Figure 7.3 [Main] property setting page for the Multiple actions button element



No.	Property	Function description			
No.	Action when pressed	 It is the action to execute after you press the multiple actions button. The supported button actions after the button is pressed are shown as below: Action when pressed Action List Detail Set to On Set to Off Maintained Multistate Set Constant Increment Becoment Goto Screen Set Low Security 			
		Copy System Menu Paste Report List Screen Capture Remove Storage Import/Export Recipe Language Change Delay OK			
(2)	Action when released	 It is the action to execute after you release the multiple actions button. The supported button actions are the same as that of [Action when pressed]. 			
	Action when long pressed	 It is the action to execute after you long press the multiple actions button. You must set the long press time to have the long press button action work. The supported button actions are the same as that of [Action when pressed] and [Action when released]. 			
(3)	Long press time	The setting range for long press time is 0 - 10 second(s). Long pressed time:			
		The available element styles are Standard, Raised, Round, and Invisible. This setting allows users to change the element appearance.			
(4)	Style	Standard Raised Round Invisible Standard Raised Round Invisible			





Multiple actions		×
Preview	Main Main-2 Text Picture Details Coordinates	
	Style	
	Transparent: 255	
	Animation: No (2)	
	Anti-aliasing:	
	(3)	
State:		
Language:		
Language2 💌		
Element description:		
Multiple actions_009		
		OK Cancel

Main-2

Figure 7.4 [Main-2] property page for multiple actions button elements

No.	Property	Function description				
(1)	Transparent	You can set the transparency value within the range of 50 to 255. The default is 255. The smaller the value, the higher the transparency of the element.				
(2)	Animation	The [Animation] function is not available for this element.				
(3)	Anti-aliasing	The [Anti-aliasing] function is not available for this element.				

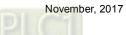


Text

Multiple actions		×
Preview		ordinates (2)
	Text (1)	
	B Z	 ■ <u>12</u> ■ 100%
State: (4)	Horizontal	Horiz. Centering
State: (4)	Vertical angimient.	Vert. Centering
Language:		
Language2 💌	State Language1 Language2 (3)	(5)
Element description:		
Multiple actions_009		
		OK Cancel

Figure 7.5 [Text] property page for multiple actions buttons

o. Property	Function description							
I) Text	 You can enter the text to display in this box. Main Main-2 Text Picture Details Coordinates Text Text Image: Image: Image: Image: Image: State: Process text of all states Process text properties of all states State: State: Image: Image:<!--</th-->							
	0 • Process the text of all states Language: Language1 • Element description: Multiple actions_001							



No.	Property	Function description					
(3)	Edit Multi-language Text	If you have added multi-language text, the [Text] page allows you to edit multi-language data (shown in the figure of text property); you can enter contents in English in the English column.					
(4)	Process the Text of All States	The multiple actions have only one state, so this function is not applicable.					
(5)	Process Text Properties of All States	The multiple actions have only one state, so this function is not applicable.					



Picture

Multiple actions									×
Preview	Main	Main-2	Text	Picture	Details	Coo	rdinates		
(1)	Picture)							
	Pictu	re Bank Name	:	None		-	None		
	Align	ment (Hori./Ve	ert.):	Horiz. Center	ing	•	Vert. Cente	ering	-
	Streto	ch Mode:		Actual Size		Ŧ	Process	pictures of all	states
State: (2)	Trans	sparent Color:		No -	2	•			
Language:			ר						
Language2		(3)	J						
Element description:									
Multiple actions_009									
								ОК	Cancel

Figure 7.6 [Picture] property page for the Multiple actions button element







No.	Property	Function description							
		You can use the alignment options to set how pictures are aligned.							
	Alignment	Main Main-2 Text Picture Details Coordinates Picture Picture Picture Picture Picture Picture Picture Picture StodemButton.pib Immi_buttom-03-1.png Immi_buttom-03-1.png Alignment (Hori/Vert.): Align Right / Vert. Centering Immi_buttom of all states Stretch Mode: Stretch 1:1 Process pictures of all states Transparent Color: No Immi_buttom Immi_buttom							
	Stretch Mode	The Stretch Mode options include [Stretch All], [Stretch 1:1], and [Actual Size].							
(2)		Stretch AllStretch 1:1Actual SizeIf you select [Stretch All], the picture fills the full element display area.If you select [Stretch 1:1], the picture displays in 1:1 							
		 If you select [Process pictures of all states], assume that the elements have multiple states and some pictures do not fill the full element display area, you can use this function to process all pictures instead of setting them respectively, which saves the editing time. 							
		Process pictures of all states							
	Transparent Color	Specifies a color in the picture and turn this color into transparent. is for selecting the transparent color. If you select the blue part in the clock, the software changes the blue parts into transparent, which color is identical to the element foreground color.							
(3)		Preview Preview							

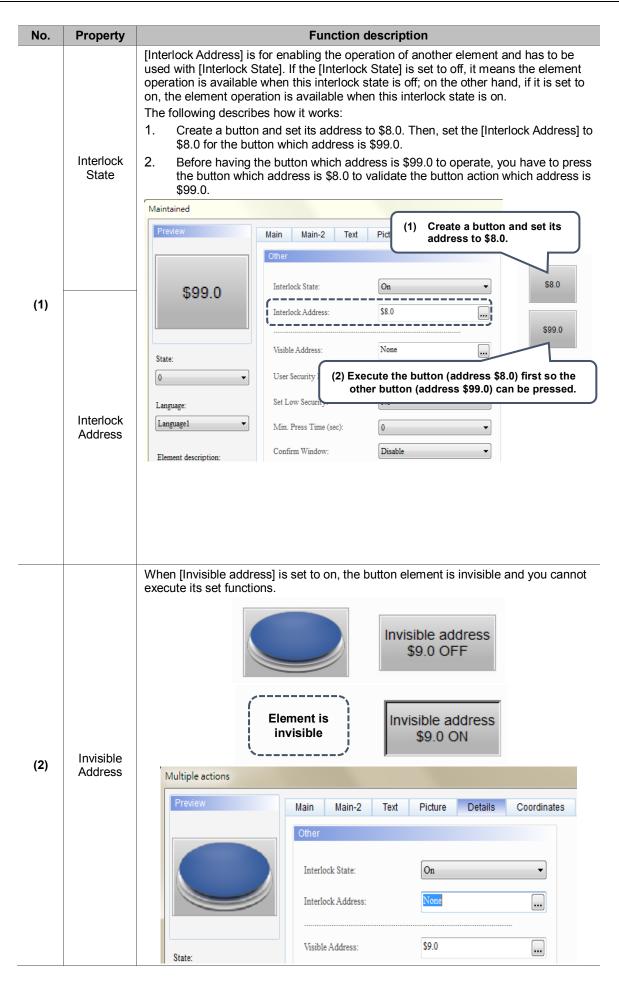


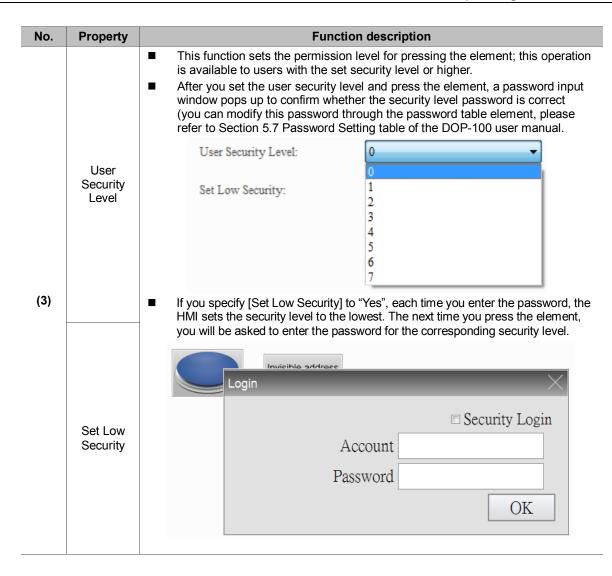
Multiple actions			×
Preview	Main Main-2 Text	Picture Details Coordinate	S
	Other		
	Interlock State:	On	(1)
	Interlock Address:	None	
State:	Visible Address:	None	(2)
	User Security Level:	0 •]	(3)
Language:	Set Low Security:	No	
Element description: Multiple actions_009			
			OK Cancel

Details

Figure 7.7 [Details] property page for multiple actions buttons









Coordinates

Multiple actions							×
Preview	Main	Main-2	Text	Picture	Details	Coordinates	
	Coordi	nates					
			har		ก	202	(1)
		X:	304	* *		292	
		Width:	126	*	Height	: 51	
							(2)
State:							
0 -							
Language:							
Language1							
Element description:							
Multiple actions_003							
							OK Cancel
							UK Cancel

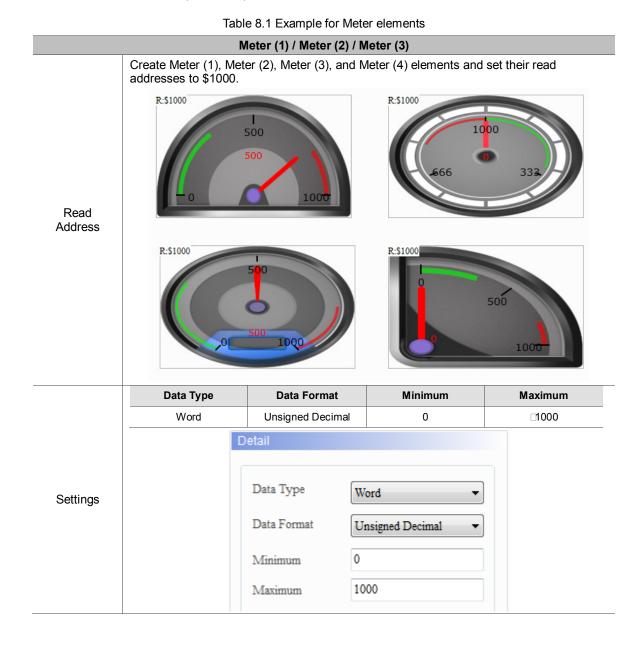
Figure 7.8 [Coordinates] property page for the Multiple Actions button element

No.	Property	Function description
(1)	X value and Y value	Set the upper left X coordinate and Y coordinate of the elements.
(2)	Width and Height	Set the width and height of the elements.



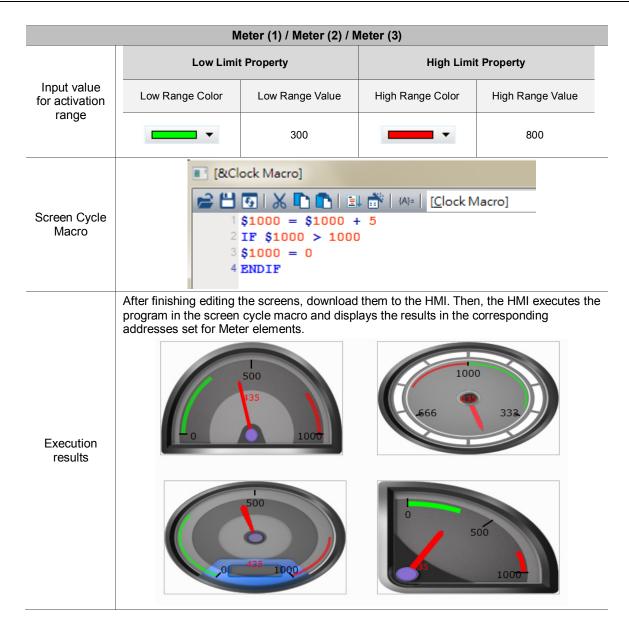
8. Meter (1) / Meter (2) / Meter (3) / Meter (4)

The software provides four styles of meters for displaying the measuring values of the set addresses as well as for showing whether the value reaches the upper or lower limit and the target value. In addition, you can define the memory address for the target value and high/low limit to make the application more flexible so it meets users' requirements. You can also specify the colors for the lower limit, upper limit, and target value for easier identification and viewing. Further, the meter elements have animation and anti-aliasing functions that makes the display smoother and more delicate.



Please refer to the example descriptions below.





Functions for Meter (1), Meter (2), Meter (3), and Meter (4) are the same except the styles; therefore, the section below will only introduce Meter (1).



Meter(1)		×
Preview	Main Main-2 Text Picture C	oordinates
	Memory	Detail
50	Read Address: Read Offset Address: None	Data Type Word 🗸
-0 100	Style	Data Format Unsigned Decimal -
		Minimum 0
State:	Mark Number: 2	Maximum 100
0	Subscale Mark 0	
Language:	Pointer Color:	Target
Language1 💌	Mark Color:	0
Element description:	Border Color:	Range
Meter(1)_001	Low Range Color:	0
	High Range Color:	High Limit
	Numeric Display: Yes 🗸	100
	Style: Standard V	Variable target/range limits
	Foreground Color:	Integer Digits 4 🗸 Min 0
	Background Color:	Fractional 0 🗸 Max 9999
		OK Cancel

When you double-click the Meter element, the property page is shown as follows.

Figure 8.1 Meter element property

Table 8.2 Meter function page

Meter (1) / Meter (2) / Meter (3) / Meter (4)				
Function page	Description			
Preview	Meter elements are only for viewing multi-language data display and have no multiple states.			
Main	Set the read memory address, read offset address, element styles, foreground color, and background color. Set the mark number, sub-scale number, pointer color, mark color, scale color, border color, low range color, high range color, and value display. Set the element data type, data format, minimum / maximum input value. Set whether to display the target value and its color, input value for the activation range, variable target and high / low limits, integer digit, and decimal digit.			
Main-2	Set the transparency value, enable animated graphics, and enable anti-aliasing function. Set the high / low range transparency, target value transparency, value color, and minify the scale.			
Text	Set the displayed text content, font, size, color, format, zoom, and alignment.			
Picture	Set to Picture Bank Mode or Template Pattern Mode.			
Coordinates	Set the X and Y coordinates, width, and height of the element.			



Meter(1)		×
Preview (1)	Main Main-2 Text Picture Coordinates (2)	
	Memory Detail Read Address: Read Offset Address:	(3)
(9)	Mark Number: 2 Minimum 0 Maximum 100	(4)
0	Subscale Mark 0 Target Pointer Color: Mark Color: 0	
Element description:	Scale Color: Range Border Color: Low Limit	(5)
Meter(1)_001	Low Range Color: 0 High Range Color: High Limit Numeric Display: Yes	
(7)	Numeric Display: Yes Style: Standard Foreground Color: Integer Digits 4 Min 0	
(6)	Background Color:	
	ОК	Cancel

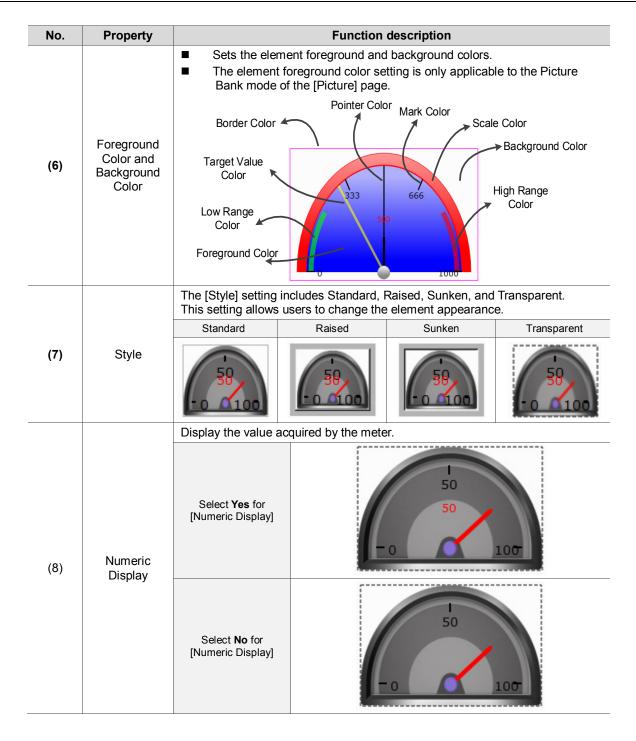
Figure 8.2 [Main] property page for Meter elements

No.	Property	Function description			
(1)	Read Address	 You can choose internal memory address or controller register address. The input memory type has to be Word. For information about selecting connection name or element types, please refer to Chapter 5 Button Element in the DOP-100 user manual. 			
	Read Offset Address	Please refer to Appendix D in the DOP-100 user manual for more details about read/write offset addresses.			
(2)	Data Type	[Data type] includes Word and Double Word. Detail Data Type Word Data Format Double Word			

Main

No.	Property	Function description				
		When the data type is Word, the supported data formats are as follows:				
		C)etail			
			Data Type	Word		
			Data Format	Unsigned Decimal BCD		
			Minimum	Signed BCD Signed Decimal		
(3)	Data Format	N/ban that	Maximum	Unsigned Decimal		
(3)	Data Format	When the follows:	data type is Dou	ble Word, the supported data formats are as		
		C)etail			
			Data Type	Double Word		
			Data Format	Unsigned Decimal		
			Minimum	Signed BCD Signed Decimal		
			Maximum	Unsigned Decimal		
		The allowable ra	anges for the mir n the selected da	imum and maximum values are subject to ata type and data format.		
		Data Type	Data Format	Allowable range		
			BCD	0 - 9999		
	Minimum /	Word	Signed BCD	-999 - 999		
(4)	maximum	Word	Signed Decima	al -32768 - 32767		
	input value		Unsigned Decin	nal 0 - 6553		
			BCD	0 - 99999999		
		Double	Signed BCD	-9999999 - 99999999		
		Word	Signed Decima	al -2147483648 - 2147483647		
			Unsigned Decin	nal 0 - 4294967295		
		Target	can only ente	ox [Variable target / range limits] is unchecked, you er a constant to define the displayed target value o ou can also specify the displayed color.		
(5)	Dete Fermet	Range	limits. It is the checkbox [Va	nput value range including the lower and the upper e same as the displayed target value. If the ariable target/ range limits] is unchecked, you can onstants to define the lower and upper limits of the		
	Data Format	Variable target range limits	/ If it is checked dynamically of values displa	ed, you can define the memory addresses to change the target value, lower and upper limit ayed.		
		Integer Digits	You can defi	You can define how many digits the displayed integers and		
		Fractional Digits	decimals car			







No.	Property	Function description		
		Border Color	Pointer Color Mark Color Background Color High Range Color	
(9)	Style	Mark Number Subscale Mark	The minimum mark number must be no less than 1 and the maximum is up to 10. The minimum subscale number can be 0 and the maximum is	
		Number Pointer Color	up to 99. You can define the pointer color to be displayed. Pointer color setting is only applicable to the Picture Bank Mode of the [Picture] page.	
		Mark Color	You can define the mark color to be displayed.	
		Scale Color	You can define the scale color to be displayed. Scale color setting is only applicable to the Picture Bank Mode of the [Picture] page.	
		Border Color	You can define the border color to be displayed.	
		Low Range Color	You can define the low range color to be displayed.	
		High Range Color	You can define the high range color to be displayed.	
(10)	Language	When you have set	multi-language data, you can use the language used for the displayed text properties, etc.	

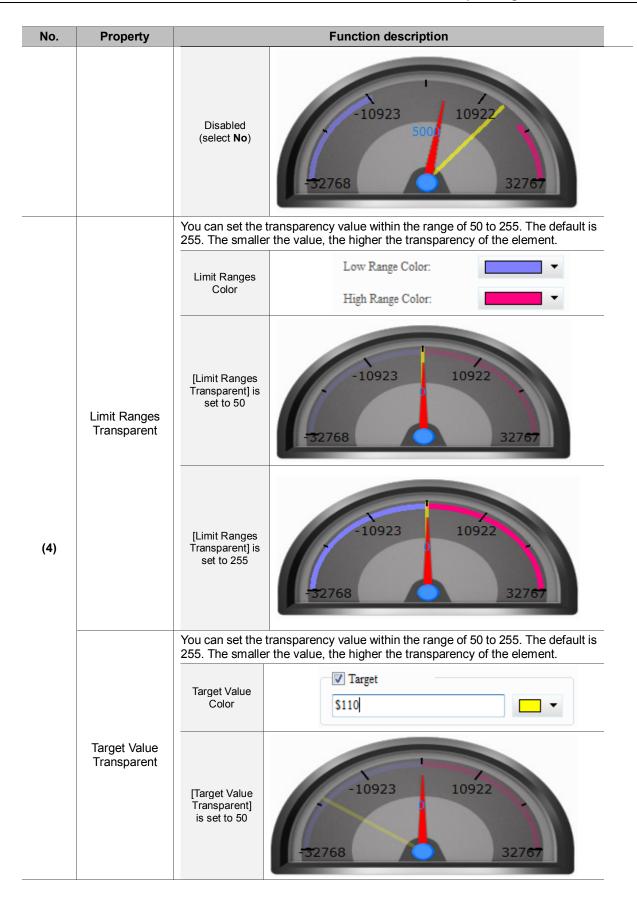


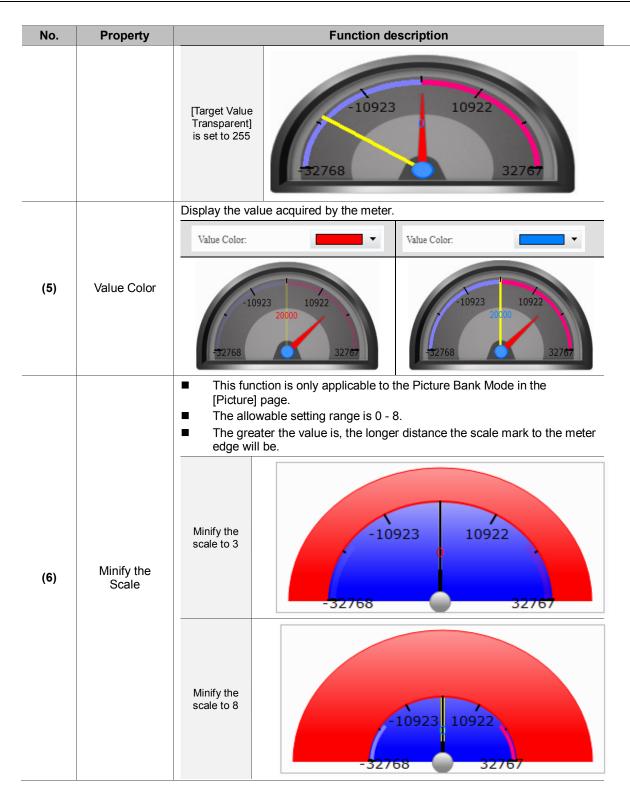
Main-2

Meter(1)		x
Meter(1) Preview State: (4) Language: Language2 Element description: Meter(1)_001	Main Main-2 Text Picture Coordinates Style (1) (1) Transparent: 255 (1) (2) Anti-aliasing: Yes (2) (3) Target Value Transparent: 160 (3) (3) Value Color: (1) (3) (1) Minify the scale: 0 (1) (1) (6) (2) (3) (1)	
	OK Can	xel

Figure 8.3 [Main-2] property page for the Meter elements

No.	Property	Function description		
(1)	Transparent	You can set the transparency value within the range of 50 to 255. The default is 255. The smaller the value, the higher the transparency of the element.		
(2)	Animation	Use the animated graphic function for this element.When enabled, the pointer motion becomes smoother.		
(3)	Anti-aliasing	 Use the anti-aliasing function for this element. When enabled, the element display becomes more delicate without jagged edges. Enabled (select Yes) 		







Meter(1)	
Preview	Main Main-2 Text Picture Coordinates (2) Text (1) Arial B I U 100% Horizontal Horiz. Centering Vertical alignment: Vert. Centering
(4) Language: Language2 • Element description: Meter(1)_001	Process the text of all states Process text properties of all states (5) (5) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7

Text

Figure 8.4 [Text] property page for Meter elements

No.	Property	Function description						
(1)		■ You can enter the text to display in this box.						
		Preview Main Main-2 Text Picture Coordinates						
	Text							
		State:						
		Process the text of all states Language:						
		Language1 State Language1 Language2						
		0 儀統 Meter						
		As long as the element allows text input, you can click the element on screen and press the space key to promptly start editing the text.						
(2)	Text Property	Set the text properties, including the font, size, color, zoom, alignment, and bold / italic / underline for the text. You can refer to the Preview section in th figure above for the text property setting results.						



No.	Property	Function description
(3)	Edit Multi-language Text	If you have added multi-language text, the [Text] page allows you to edit multi-language data (shown in the figure of text property); you can enter contents in English in the English column.
(4)	Process the text of all states	Meter elements have only one state, so this function is not applicable.
(5)	Process text properties of all states	Meter elements have only one state, so this function is not applicable.



Meter(1)		×
Meter(1)	Main Main-2 Text Picture Coordinates Picture Bank Mode Template Pattern Currently Template	
	Start the Template Wizard	OK Cancel

Picture



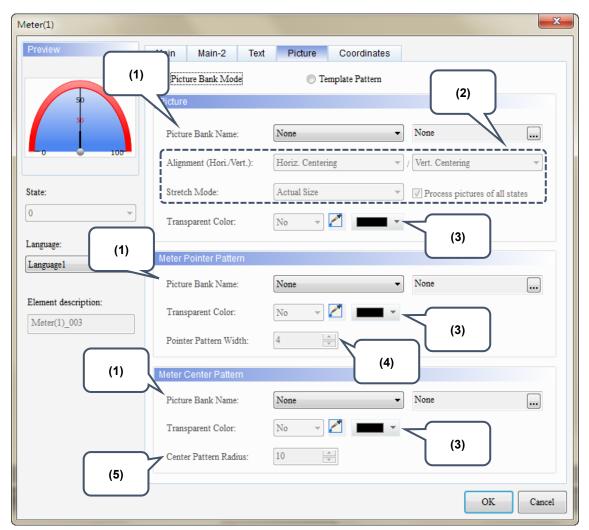
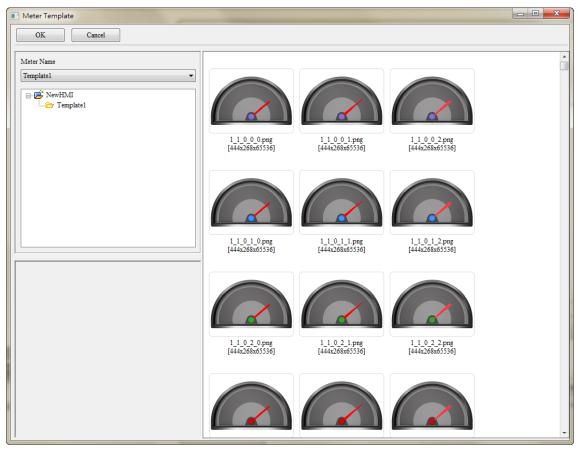


Figure 8.5 [Picture] property page for Meter elements

The [Picture] page has two modes, one is [Template Pattern] and the other is [Picture Bank Mode]. When you create meter elements, the default is the Template Pattern Mode, but you can select the display mode as required.





In Template Pattern mode, you can use the Template Wizard to define the meter template.

Figure 8.6 Meter element patterns - Template Wizard

Ne	Dronautic			1		
No.	Property		Function descr	-		
		use the drop-down then select the de [Meter] provides p	cture Bank Name] is "N n list to view the picture sired pictures. patterns of meters, mete s to choose from the pic	e ban er po	ik provided by the solution inters, and meter of	software and
		Picture				
		Picture Bank Name:	None	•	None	
		Alignment (Hori./Vert.): \$3 \$3 \$3	\$3DButton.pib \$3DCButton.pib \$3DFan.pib	Î	/ Vert. Centering	~
		Stretch Mode:	\$3DFineLamp2State.pib	\$3DFineLamp2State.pib	Process pictures of a	ill states
		Transparent Color:	\$3DFineLampNState.pib \$3DFineSW2State.pib \$3DFineSWNState.pib \$3DLamp2State.pib			
		Meter Pointer Pattern	\$3DLamp3State.pib \$3DLights.pib	Ε		
			\$3DPump.pib	-		
		Picture Bank Name: Transparent Color:	\$3DSButton.pib \$3DSign.pib \$3DSW10State.pib		None	
		Pointer Pattern Width:	\$3DTank.pib \$3DToggleSW.pib \$3DTPipe.pib			
			\$IndustrySewing \$IndustryWoodWorking			
		Meter Center Pattern	\$ModernButton.pib \$ModernButton2.pib			
		Picture Bank Name:	\$ModernFan.pib \$ModernLamp2State.pib \$ModernPipe.pib		None	
(1)	Picture Bank Name	Transparent Color:	\$ModernPump.pib \$ModernSign.pib			
		Center Pattern Radius:	\$ModernSW2State.pib \$ModernSW3State.pib \$ModernSW4State.pib	-		
		Select Picture				
		hmi_buttom-01-1.png [405x419x65536]	hmi_buttom-01-2.png [405x419x65536]		tom-02-1.png 377x65536)	
		hmi_buttom-02-2.png [387x377x65536]	hmi buttom-03-1.png [405x419x65536]		tom-03-2.png 119x05336]	
		hmi buttom-04-1.png [387x377x65536]	hmi buttom-04-2.png [387x377x65536]		tom-05-1.png 419x65536]	
					OK	Cancel
						<u></u>

No.	Property	Function description
		You can use the alignment options to set how pictures are aligned.
	Alignment	Prevlew Main Main-2 Text Picture Coordinates
		Stretch All Stretch 1:1 Actual Size
(2)	Stretch Mode	If you select [Stretch All], the picture fills the full element display area. If you select [Stretch 1:1], the picture displays in 1:1 size based on the element width and length. If you select [Actual Size], regardless of the element size, the picture displays in actual size in the element display area. Image: the picture display area Image: the picture display area Image: the picture display area Image: the picture display area Image: the picture display area Image: the picture display area Image: the picture display area Image: the picture display area Image: the picture display area Image: the picture display area Image: the picture display area Image: the picture display area Image: the picture display area Image: the picture display area Image: the picture display area Image: the picture display area Image: the picture display area Image: the picture display area Image: the picture display area Image: the picture display area Image: the picture display area Image: the picture display area Image: the picture display area Image: the picture display area Image: the picture display area Image: the picture display area Image: the picture display area Image: the picture display area Image: the picture display area Image: the picture display area Image: the picture display area <td< th=""></td<>
(3)	Transparent Color	 Specifies a color in the picture and turn this color into transparent. If you select the blue part in the clock, the software changes the blue parts into transparent, which color is identical to the element foreground color. Foreground Color: Preview Preview Preview Preview
(4)	Pointer Pattern Width	The default is 4. The setting range is 1 - 21.
(5)	Center Pattern Radius	The default is 10. The setting range is 1 - 53.



Coordinates

Meter(1)								×
Preview	Main	Main-2	Text	Picture	Coordinates			
	Coordi	nates						
1 50			80			65		
50		X:	89	×			×	
-0 100-		Width:	241	*	Height:	165	* *	
State:								
0 -								
Language:								
Language2 🔹								
Element description: Meter(1)_001								
Interer(1)_001								
							OK	Cancel

Figure 8.6 [Coordinates] property page for meter elements

No.	Property	Function description
(1)	X value and Y value	Set the upper left X coordinate and Y coordinate of the elements.
(2) Width and Height		Set the width and height of the elements.



9. Unit Conversion Settings

[Unit Conversion Settings] is only applicable to numeric display and numeric entry elements. Since the used units vary in different countries, you can use this function to convert the units.

Numeric Display		x
Preview	Main Main-2 Text Details Details-2 Coordinates	
	Unit Conversion Settings (1)	
1234	Type Disable * Source Unit	
State:	Address (2)	
0	* Display Unit (3)	
Language1 ~	Address None Custom formula: Display value = Src value * A + B Percentage (refer to the source unit)	
Element description: Numeric Displa (4)	Variable A 1.0 Floating 0% 0.0 DWORD Variable B 0.0 Floating 100% 100.0 DWORD	
	Variable B 0.0 Floating 100% 100.0 DWORD	
	(5)	
	OK Cancel	1

Figure 9.1 [Details-2] property page for Numeric Display elements



No.	Property	Function description						
		You can select the conversion type, including speed, pressure, position, temperature, weight, capacity, and custom formula.						
		Type Disable Disable Speed Pressure Location Temperature Weight Volume Custom formula If you select "Disable", it means the value does not need conversion. To set the custom formula, you have to enter values for Variable A and Variable B. When you select "Floating" for [Unit], the formula is [Display value = Source						
		value * A + B]. Unit Conversion Settings						
(1)	Туре	Type Custom formula * Source Unit Address None * Display Unit Address None Custom formula: Display value = Src value * A + B Percentage (refer to the source unit)						
		Variable A 1.0 Image: Floating 0% 0.0 DWORD Variable B 0.0 Image: Floating 100% 100.0 DWORD						
		Unit						



No.	Property	Function description				
			The unit is subject to change based on the selected type. The table below lists the corresponding unit for each type.			
			Туре	Unit		
				mm/sec		
			Speed	inch/sec		
			Opeed	%		
				Code		
				kg/cm		
			Pressure	bar		
				%		
		Unit		Code		
			_	mm		
			Coordinates	inch		
				%		
(2)	Source			Code		
(2)	Source		Temperature	°F		
				۵°C		
				%		
				Code		
				ton		
				kN		
			Weight	g		
			Weight	OZ		
				%		
				Code		
				L		
				ml		
			Capacity	kL		
				%		
				Code		



No.	Property	Function description					
			either the source enabled. When th	percentage (%) or the or display, the percentage setting in percentage setting in percentage setting in the percentage setting in the source.	age setting interface is nterface allows data		
			Unit Conversion Settings				
			Type	•			
			* Source				
			Unit mm/sec	•			
			Address				
			* Display				
			Unit %	•			
			Address				
			Custom formula: Display value	e = Src value * A + B	age (refer to the source unit)		
			Variable A 1.0	Floating 0%	0.0 DWORD		
			Variable B 0.0	Floating	100.0 DWORD		
				Unit	mm/sec 🔹		
			Unit Conversion Settings				
			Type	•			
(2)	Source	Unit	·		odes shown as below: sec : 101		
			Address None	inch	/sec : 102		
			* Display	%:	700		
			Unit inch/s	ec 👻			
			Address				
			Custom formula: Display valu		ntage (refer to the source unit)		
			Variable A 1.0	Floating 0%	0.0		
			Variable B 0.0	Floating 100%	. 100.0 DWORD		
				Unit	mm/sec 💌		
				I	inch/sec		
				"Code" as the unit, it m fy the unit codes for the e as follows:			
			Туре	Unit	Code		
				mm/sec	101		
			Speed	inch/sec	102		
				%	700		
			Datas	kg/cm	201		
			Pressure	bar %	202		
				mm	301		
			Position	inch	302		
	1	L	<u> </u>				

No.	Property	Function description					
				%	700		
			Temperature	°F	401		
				°C	402		
				%	700		
				ton	501		
				kN	502		
			Weight	g	503		
				OZ	504		
				%	700		
				L	601		
			Conceity	ml	602		
			Capacity	kL	603		
				%	700		
		Unit	Please refer to the sour	ce description.			
(3)	Display	Address	 User-defined addr "Using the code" f If both the source the same address 	nen you select the is the unit, do not use			
	Custom	Variable A	You can input external / internal memory addresses and constants for both [Variable A] and [Variable B].				
(4)	formula	Variable B	A and Variable B.		nter values for Variable for [Unit], the formula is		
		0%		ernal / internal memory setting values of 0% and			
	Percentage settings	100%		ource or display selects he percentage setting i			
(5)		Unit	It is subject to change b setting for example, if yo unit, you can use the dr available options are mr [Source], the percentag	ou select percentage (% op-down list in the perc m/sec and inch/sec; if y	b) or code as the source entage setting, which ou select mm/sec for		



	Table	9.1 Unit conversion	example			
	Ur	nit conversion (fixed	unit)			
	Numeric display	element (display)	Numeric entry element (source)			
	Read Address	\$10	Write Address	\$10		
Read Address	R:\$10		W:\$10			
	12	345	####;	¥		
	Numeric display / entry element					
Settings	Data Type	Data Format	Integer Digits	Fractional Digits		
	Word	Unsigned Decimal	5	0		
•	 Double-click the n "Temperature" for 	umeric display eleme [Type] and select "°F	nt and go to the [De " for [Source Unit] ar	tails-2] page. Select nd "°C" for [Display Ur		
	Numeric Display			× Y		
	Preview	Main Main-2 Text De	etails Details-2 Coordin	ates		
		Unit Conversion Settings				
		Type	re 🔻			
	1234	* Source				
		Unit F	•			
		Address None				
	State:	* Display				
	0 ~	Unit	•			
	Language:	Address None				
	Language1 -					
	Element description:	Custom formula: Display value = S		r to the source unit)		
	Numeric Display_001	Variable A 1.0	Floating 0% 0.0	DWORD		
		Variable B 0.0	Floating 100% 100.0	DWORD		
			Unit			
Unit Setting						
	Since the numeric	entry element does i	not need unit conver	sion, please select		
	"Disable" for [Type	e].				
	Numeric Entry			×		
	Preview	Main Main-2 Text D	etails Details-2 Macro	Coordinates		
	Preview	Main Main-2 Text D Unit Conversion Settings	etails Details-2 Macro			
		Unit Conversion Settings	etails Details-2 Macro			
	Preview ####	Unit Conversion Settings Type Disable				
		Unit Conversion Settings				
		Unit Conversion Settings Type Disable * Source				
		Unit Conversion Settings Type Disable * Source Unit Address None				
	####	Unit Conversion Settings Type Disable * Source Unit				
	####	Unit Conversion Settings Type Disable * Source Unit Address None * Display	· ·			
	#### State:	Unit Conversion Settings Type Disable * Source Unit	· · ·	Coordinates		
	#### State: 0 ~ Language: Language1 ~	Unit Conversion Settings Type Disable * Source Unit Address None * Display Unit	· · ·	Coordinates		
	#### State: 0 ~ Language: Language1 ~ Element description:	Unit Conversion Settings Type Disable * Source Unit	· · ·	Coordinates		
	#### State: 0 ~ Language: Language1 ~	Unit Conversion Settings Type Disable * Source Unit Address None * Display Unit Address None Custom formula: Display value =		r to the source unit)		
	#### State: 0 ~ Language: Language1 ~ Element description:	Unit Conversion Settings Type Disable * Source Unit Address None * Display Unit Address None Custom formula: Display value = Variable A 1.0	v v score r score Percentage (ref O%	r to the source unit)		

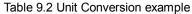




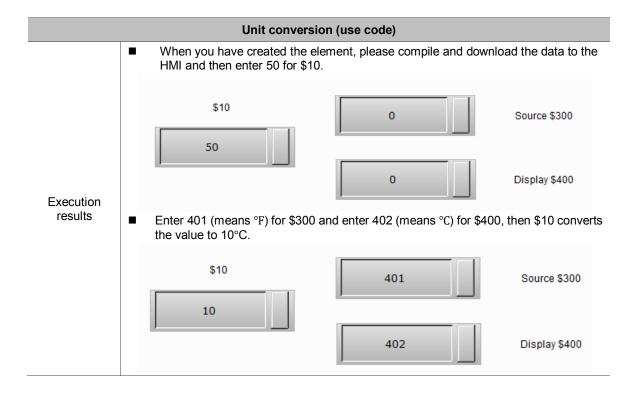
Unit conversion (fixed unit)					
	After creating the elements, please compile a Then, enter 50 (°F) through the numeric entr will convert the temperature to 10 °C.				
Execution results	Display ℃	Source "F			
	10	50			



	Tabl	e 9.2 L	Init Conversion	example				
	ι	Jnit co	nversion (use	code)				
	Numeric Entry Elen	Numeric Entry Element		Numeric Entry Element (source)		Numeric Entry Element (display)		
Read Address	Read Address	\$10	Write Address	\$300	Write	Write Address \$400		
Nedu Audress	W:\$10 #####		W:\$300 #####		W:\$400	W:\$400 #####		
	Numeric Entry Element							
Settings	Data Type	D	ata Format	Integer D	Integer Digits		Fractional Digits	
	Word	Unsi	gned Decimal	5		0		
Unit Settings	and "\$300" for th unit and "\$400" for Numeric Entry Preview ##### State: 0 Language: Language: Canonicate the numeric please select "Di Numeric Entry Preview ##### State: 0 State: 0 Language: #####	or the a Mair ic entry sable" - Main Type * Source Unit Adda * Displa	address. Type Text t Conversion Settings Type Te Source Unit Us Address S34 Display Unit Us Address S44 element of \$3C for [Type]. Main-2 Text D version Settings y	Details C nperature ing the code ing th	etails-2 ? Unit co "F : 4 "C : - % : 7 do not ne	Macro Co des shown as bel 401 402 00 eed unit co Coordinate	ordinates	
	Element description:		le A 1.0		Percentage (ref)	er to the source u	nit) DWORD	
	Numeric Entry_002							





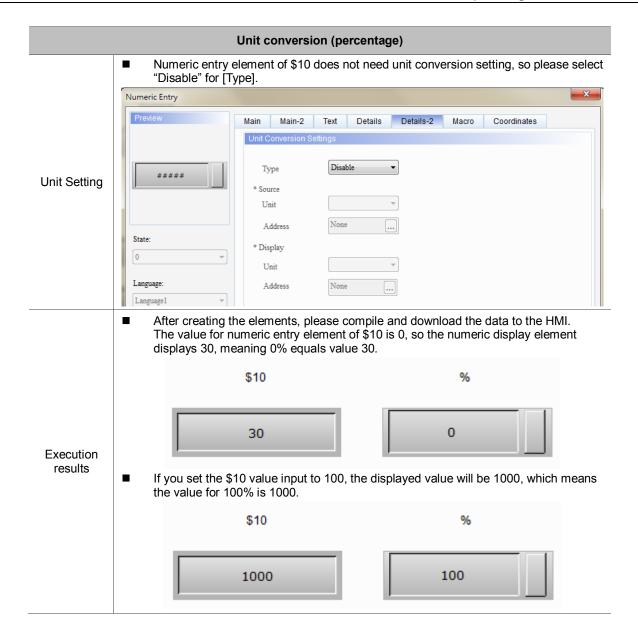




Unit conversion (percentage)								
	Un	in convei	rsion (perc					
Read Address	Numeric Dis	Numeric Display Element			itry Element irce)			
	Read Address	6	\$10	Write Address	\$10			
	R:\$10	R:\$10 12345			#			
	1							
		Numeric display / numeric entry element						
Settings	Data Type	Data	Format	Integer digits	Fractional Digits			
	Word	Unsigned Decimal		5	0			
Unit Setting	"Temperature" fo	r [Type], s it Conver Type Source Unit Address Display Unit Address ge 0% to 5 unit is %, F is used	set the source sion Setting 30.0 and 10 , the percent as the unit	ce unit to "%", and set	Details-2] page, select the display unit to "°C".			
		100%	30.0 1000.0	DWORD				

Table 9.3 Unit Conversion example







10. Animated Graphic

Animated graphics allow you to set multi-state graphics or import GIF files. In the past, the software separates one GIF file into multiple graphs, so users have to set the corresponding states individually, which is not easy for programming; the new software version has improved the GIF graphic importing method, enabling one state to correspond to one GIF file.

The read memory address of the animated graphic element enables the read values to correspond to the switching graphics set in the animated graphic element as well as specifying the target position for the element to move to. Please refer to the example description in Table 10.1.



	Animated Graphic
	Read Address of the animated graphic element: \$444.
Read Address	R:\$444
Set the property for the animated graphic element.	 Set [State Counts] to 3, which means to import three GIF images. Select "Yes" for [Clear Picture]; this means the image of previous state does not stay when switching to the next image.
Import File	 Create a new picture bank, which is named "test", and import three GIF images. Enter the [Picture] page of the animated graphic elements, import the images for State 0, State 1, State 2 respectively.
Edit Clock Macro	Go to [Options] > [Clock Macro]: \$445 stands for defining [Read address + 1] as the X-coordinate (horizontal axis) of the animated graphic element. \$446 stands for defining [Read address + 2] as the Y-coordinate (vertical axis) of the animated graphic element. [&Clock Macro] [&Clock Macro] [&Clock Macro] [&Clock Macro]
Execution results	After you compile and download the screen data to the HMI, these three GIF images keep rotating and move according to the memory address read by the horizontal and vertical axes.

Table 10.1 Animated graphic example



11. Operation Log Table

[Operation Log Table] is for recording how and when you operate each element after entering the HMI screen. The operation records include: change element values, user security level, and bit, etc. You can use this function for problem analysis in circumstances such as machine malfunction or poor production. In addition, you can save the records as CSV files and view them with PCs.

Note:

- 1. The default for [Operation Log Table] is a CSV file which saves up to 10,000 sets of data.
- 2. The Operation Log Table can only be saved in USB Disks or SD Cards; therefore, the external storage read speed determines the Operation Log Table display and screen operation update speed.

When you double-click the Operation Log Table, the property page is as follows:

Operation Log Table		×
Preview	Main Main-2 Details Function Button Text Coordinates	
	Main Main-2 Details Function Button Text Coordinates Style Detail	
	OK	Cancel

Figure 11.1 Properties of [Operation Log Table]



	Operation Log Table				
Function page		Description			
Preview	The [Operation Log	g Table] has only one state and no multi-language data display.			
	Style	Set the background color, border color, gridline color, row color, alternating row color, selected row color, cursor color, row color pointed by the cursor and whether to show gridlines.			
Main	Settings	It includes options for enabling the triggering address, [Save Settings] (storage space setting and solutions for insufficient space), and [CSV output settings] (date/time format, whether to save the records to an external device as CSV file).			
Main-2	Set the transparen	cy value, enable the animation, and enable the anti-aliasing function.			
Details	Display settings	You can set whether to record the time, date, user account, user security level, screen, description, action, address, previous value, changed value, and sort the column displaying order.			
	Title setting	Set the text alignment, background color, and text color.			
	Time/Date	Set the time format, date format, and displayed color.			
Function Button	Set the function bu	tton to be enabled and the button width and height.			
Text	Set the text font, si	ze, and color.			
Coordinates	Set the element's	K and Y coordinates as well as the width and height.			

Table 11.1 Eurotian page for Operation Le	
Table 11.1 Function page for [Operation Log	y lablej



- × **Operation Log Table** Preview Main Main-2 Details Function Button Text Coordinates (1) Detail (2) Background Color: **-**C Operation Log Setting Border Color: Г (3) (4) Gridline Color: **-**L (5) State: Row Color: ٦ 0 Ŧ Alterning Row Color: (6) Language: Select Row Color: -Language1 (7) Mouse Pointed Row Ŧ L (8) Element description Show Gridlines: Yes -Operation Log Table_001 (9) OK Cancel
- Main

Figure 11.2 [Main] property page for the Operation Log Table element

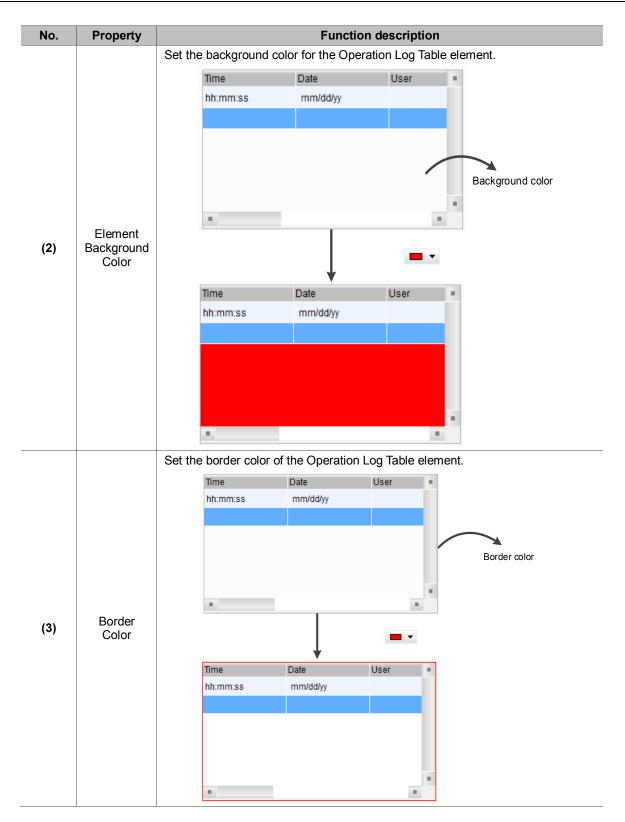


No.	Property			Fune	ction descriptio	n			
	-	You can start	the setting	ı by pressi	ng the Operatio	n Log Setti	ngs butto	n or	
		by going to [C	Options] > [Operation	Log Settings].	-	-	_	
		Operat	tion Log Setting	gs			×		
			Enable						
			Trigger		None				
] []		
		Sa	ave Settings				,		
		2	Save in		USB Disk	Ψ	J		
		I	nsufficient storag	e	Overwrite Files	*]		
		C	SV output setting	s					
			Time Format		hh:mm:ss	Ŧ]		
]	Date Format		mm/dd/yy	v]		
		Ē							
			Column order Time	Input or not	CSV title(Language1) Time	CSV title(Langu Time			
			Date		Date	Date			
			User		User	User			
			Level		Level	Level			
			Screen		Screen	Screen			
			Description		Description	Description			
			Action		Action	Action			
	Operation		Address		Address	Address			
(1)	Log		Pre Value		Pre Value	Pre Value			
(1)	Settings	-	Change Value		Change Value	Change Value			
	5		•		III	•			
					e				
					OK	Cancel			
		Enable	The defau	ult is disabl	ed. You can star	t oditing the	sotting at	itor	
		Trigger		the box "E		t culting the	setting a		
					ing address for	the [Operation	on Log Ta	ble].	
		- .			ons are internal a				
		Trigger (Address)			riggering only).				
		(Address)			is address is trig			Log	
			Tab	le] starts re	ecording all oper	rations of the	e HMI.		
					hether to save th			in an	
				D Card; the file f			.1. 6		
			When the external storage space is insufficient, two solutions are available, to stop recording [Stop Log] or to overwrite the						
					e Files]. [Stop Lo				
					verwrite Files] is				
		Save			recording the op				
		Settings	- Save Sett		5P		0		
			Save in	-	USB Disk		-		
			Insuffic	ient storage	Overwrite		•		
					Overwrite Stop Log	rues			

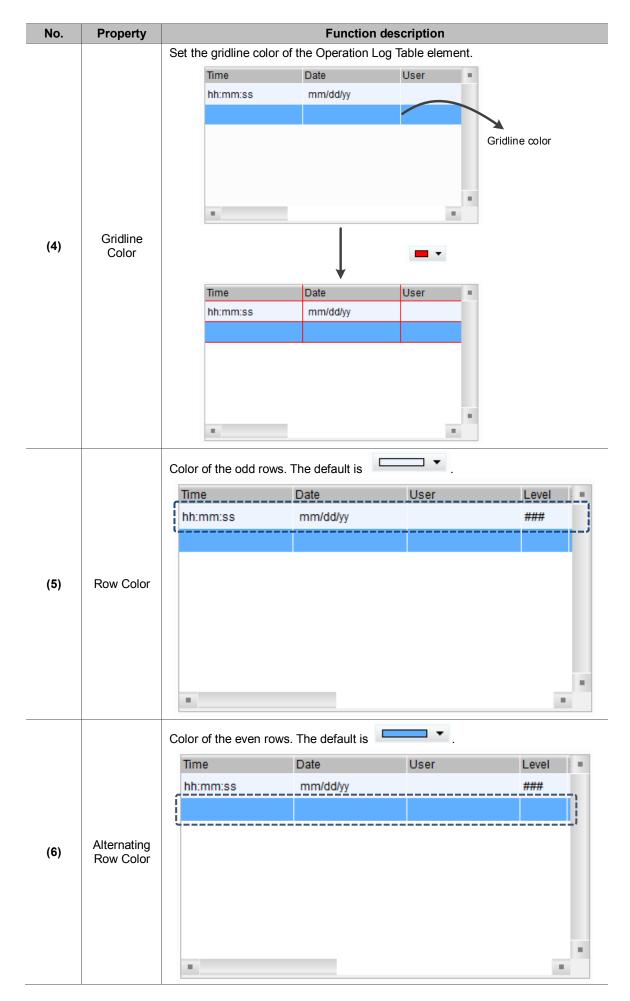


No.	Property			Function of	lescription	
			Set the r output.	ecording da	te and time forma	t for the CSV file to
			-CSV output setti	ings		
			Time Format Date Format CSV output sett	inge	hh:mm:ss hh:mm:ss hh:mm	
			Time Format		hh:mm:ss	
			Date Format		mm/dd/yy mm/dd/yy dd/mm/yy	
			Column orde	er Input or i	not (dd.mm.yy	
			Time		yy.mm.dd yy/mm/dd	
		CSV output	Date		D mm.dd	
		settinas	User Select th	o display fie	ld (a) to output, s	et the column
				ng order (b) a		ting column display
			Column order	Input or not	CSV title(Language	1) CSV title(Langi
			Time		Time	Time
			Date		Date	Date
			User	🗹 (a)	User (C)	User
			Level		Level	Screen (b)
			Screen Description		Screen Description	Screen (b) Description
			Action		Action	Action
			Address		Address	Address
			Pre Value		Pre Value	Pre Value
			Change Value		Change Value	Change Value
			•		III	•









No.	Property			Function desc	ription			
		When you se setting.	lect the data rov	ws to view, the	rows are in the	e color specifie	d in this	
		Default color	of selected row	is 🗖 🔻	•			
		Time	Date		User	Level	Scre	
		13:35:34	10/24/	2016		0	Scre	
		13:35:37	10/24/	2016		0	Scre	
(7)	Selected	13:35:39	10/24/	2016		0	Scre	
(7) Row Colo								
	Mouse							
(8)	Pointed Row Color	When the cur cursor places	sor is enabled, f	he row change	s to the specifi	ed color where	e the	
		The default is Yes. It is to show gridlines between each data entry in the [Operation Log Table].						
				Data	lless	Laval	_	
			Time hh:mm:ss	Date mm/dd/yy	User	Level ####		
(9)	Show Gridlines	Show gridlines (select Yes)						
			Time	Date	User	Level		
			hh:mm:ss	mm/dd/yy	0001	###		
		Not to show gridlines (select No)						

■ Main-2

Operation Log Table				×
Preview	Main Main-2	Details Function B	Button Text Coord	linates
	Style		(1)	
	Transparent:	255		
	Animation:	No	(2)	
·	Anti-aliasing:	Yes v		
State:			(3)	
Language:				
Language1				
T 4				
Element description: Operation Log Table_001				
				OK Cancel

Figure 11.3 [Main-2] property page for the Operation Log Table element

No.	Property	Function description
(1)	Transparent	You can set the transparency value within the range of 50 to 255. The default is 255. The smaller the value, the higher the transparency of the element.
(2)	Animation	The [Animation] function is not available for this element.
(3)	Anti-aliasing	The [Anti-aliasing] function is not available for this element.



Operation Log Table							x
Preview (2)	Main Main-2	Details	Function Button	Text	Coordinates	(1)	
State:	 ✓ Time ✓ Date ✓ User Account ✓ Level ✓ Screen ✓ Description ✓ Action 	120 * 120 * 120 * 50 * 50 * 120 * 120 *	Time Date User Level Screen Description Action		Column order: Time Date User Account Level Screen Description Action Address Previous value New value		
Language:	Action Address	120 ÷	Address	=			,
	Previous value	120	Pre Value		\frown		
Element description:	New value	120	Change Value		(4)		
(3)	Title Text Alignm Title Background Title Text Color	1 E	•	Date Forn Time Forn Color			
					0	K Cance	el

Details

Figure 11.4 [Details] property page for the Operation Log Table element

No.	Property	Function description			
(1)	Column order	You can sort the column order for the Operation Log Table. Column order: Time Date User Account Level Screen Description Action Address Previous value New value			



No.	Property	Function description					
				however, you c	selected and shown in the an uncheck the checkboxes of		
			🔽 Time	120	Time		
			🔽 Date	120	Date		
			📝 User Account	120	User		
		Soloot diaplay	🔽 Level	50	Level		
		Select display columns	V Screen	50	Screen		
			Description	120	Description		
			Action	120	Action		
			🔽 Address	120	Address		
			V Previous value	120	Pre Value		
(2)	Column Settings		🔽 New value	120	Change Value		
	Coungo		Adjust the column width in the Operation Log Table.				
			▼ Time	120	Time		
			☑ Date	120	Date		
			🔽 User Account	120	User		
			🔽 Level	50	Level		
		Adjust column width	Screen	50 🌲	Screen		
			Description	120	Description		
			Action	120	Action		
			Address	120	Address		
			V Previous value	120	Pre Value		
			Vew value	120 🚔	Change Value		



No.	Property	Function description			
			You can edit the colur The defaults are Engli		Operation Log Table.
			▼ Time	120	Time
			✓ Date	120	Date
			🔽 User Account	120	User
			V Level	50	Level
		Edit display title	Screen	50 🌲	Screen
			Description	120	Description
			Action	120	Action
			Address	120	Address
			Previous value	120	Pre Value
			Vew value	120	Change Value
(3)	Title Settings	Title Text Alignment Title Background Color	Determine how titles a Title Text A Title Backg Title Text (Title Text (Title Text (Minimiss mm/de Set the title backgroun Time Date hh:mm:ss mm/de	Alignment ground Color Jyy nd color.	Align Left Align Left Center Align Right V Level Screen Descri = #### ###
			Set the display title te	xt color.	
		Title Text Color	Time Date hh:mm:ss mm/do	User I/yy	Level Screen Descri = ### ###
			Set the date display for	ormat.	
(4)	Date and time settings	time Date Format	Date F Time F Color	ormat: n Format: d y	nm/dd/yy
				n	ry/mm/dd nm.dd nm/dd



No.	Property		Function description				
		Time Format	Set the time display format. Date Format: Time Format: HH:MM:SS HH:MM:SS Color HH:MM				
		Color	Set the display color for the date and time. Time Date User Level Screen Descri hh:mm:ss mm/dd/yy ### ###				



Operation Log Table	×
Preview	Main Main-2 Details Function Button Text Coordinates
(1)	Function Buttons Function description Default Font
	Page Up Page Down (2)
State:	Set as default description
Language: Language1	
Element description: Operation Log Table_001	
(3)	Button Default Width 60
	Button Default Height 40
	OK Cancel

Function Button

Figure 11.5 [Function Button] property page for the Operation Log Table element



No.	Property	Function description						
(1)	Function description	 Select the function buttons to display on the Operation Log Table element. Page up: go to the previous page of the Operation Log Table. Page down: go to the next page of the Operation Log Table. You can use the Page Up and Page Down buttons to change the page only when there are more than 10,000 sets of data in the Operation Log Table. That is, one CSV file has 10,000 operation log data and the Page Up and Page Down buttons are for switching between files of Operation Log Tables. 						
(2)	Set as default description	If you click Set as default description, the text is automatically set as default. Function Buttons Function description Default Font Page Up Page Down Set as default description						
(3)	Button Default Width / Height	Adjust the button height and width to display.						



Operation Log Table					×
Preview	Main Main-2	Details Functio	n Button Text	Coordinates	
	Text				
		A .: -		(1)	
	Font:	Aria		•< (1)	
·	Size:	12		(2)	
	Color:				
State:				(3)	
				\square	
Language:					
Langoager					
Element description:					
Operation Log Table_001					
				OK	Cancel

No.	Property	Function description
(1)	Font	Set the display text font of the Operation Log Table.
(2)	Size	Set the display text size of the Operation Log Table.
(3)	Color	Set the display text color of the Operation Log Table.



Coordinates

Operation Log Table								X	<u> </u>
Preview	Main	Main-2	Details	Function B	utton	Text	Coordinates		
	Coordi	nates					(
And the second sec		X:	44	* *	Y:	54		(1)	
A		Width:	911	* *	Height:	546		(2)	
							C		
State:									
0 ~									
Language:									
Language1 -									
Element description:									
Operation Log Table_001									
							OK	Cancel	

Figure 11.7 [Coordinates] property page for the Operation Log Table element

No.	Property	Function description
(1)	X value and Y value	Set the upper left X coordinate and Y coordinate of the elements.
(2)	Width and Height	Set the width and height of the elements.



12. Alarm Settings

The [Alarm Settings] page is for setting the read address, sampling cycle, maximum savable data, non-volatile memory, alarm moving sign, exporting the data to a CSV file, editing the display alarm message, and other relevant properties for the alarm elements to display.

Different from the setting methods for the DOP-B and DOP-H series HMIs that use continuous Word addresses, DOP-W and DOP-100 series use non-continuous addresses. Thus, alarms can be triggered with either Bit or Word addresses, which is more flexible and user-friendly. In addition, alarm messages now support dynamic modification. In the old version, the displayed temperatures on the alarm messages were fixed, e.g. 100 degree; now you can add %d1 to the alarm message and use the monitoring address in [Alarm Settings] to input the value, so the HMI displays the modified value when the alarm is triggered next time.

Alarm message supports up to 4,096 data entries. DOP-100 also provides a batch tasks tool for you to quickly complete the alarm group settings, allowing you to input the alarm group number easily. [Alarm History Table] provides more powerful functions: you can use the sorting and filter function to quickly view the alarm messages.

The formula provided by the software computes all the alarm-relevant data edited by users. Then, the set non-volatile memory saves these computation results (data size). If the data is saved in an HMI, the alarm data size is subject to change based on the HMI model. Please refer to the specifications for non-volatile memory in the HMI installation manual. For data saved in USB Disks or SD Cards, the alarm data size is determined by the external storage devices.

The CSV file includes alarm history and alarm frequency table and its file size is determined by the message (length) input by the user.



The following section provides an example for non-continuous addresses settings. See Table 12.1 below.

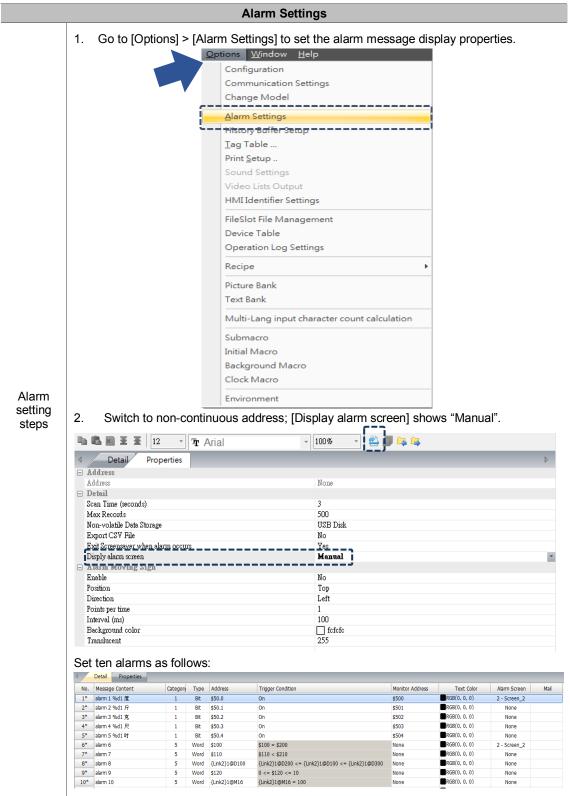
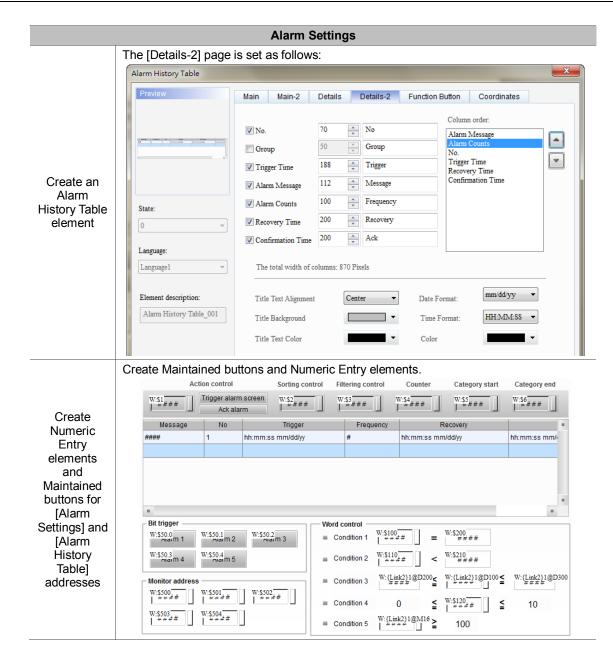


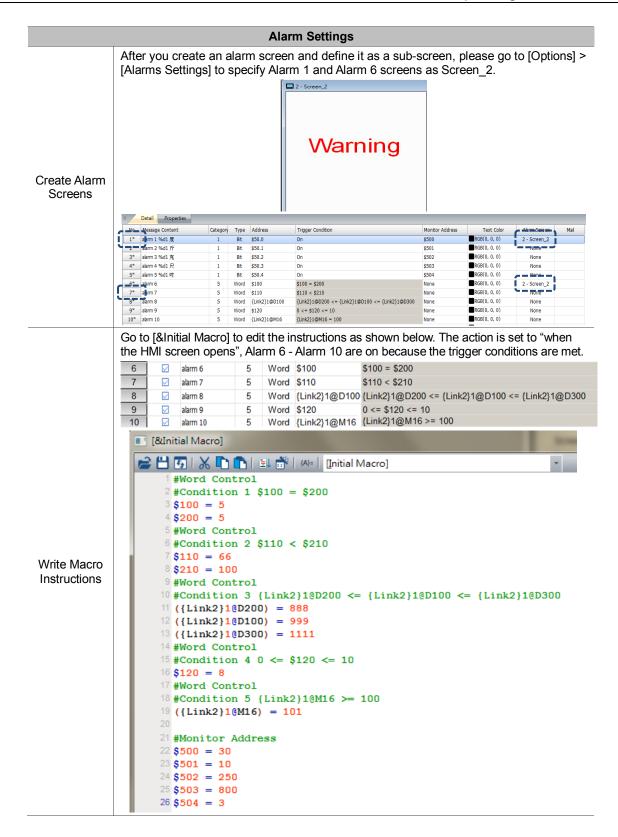
Table 12.1 [Alarm Settings] example



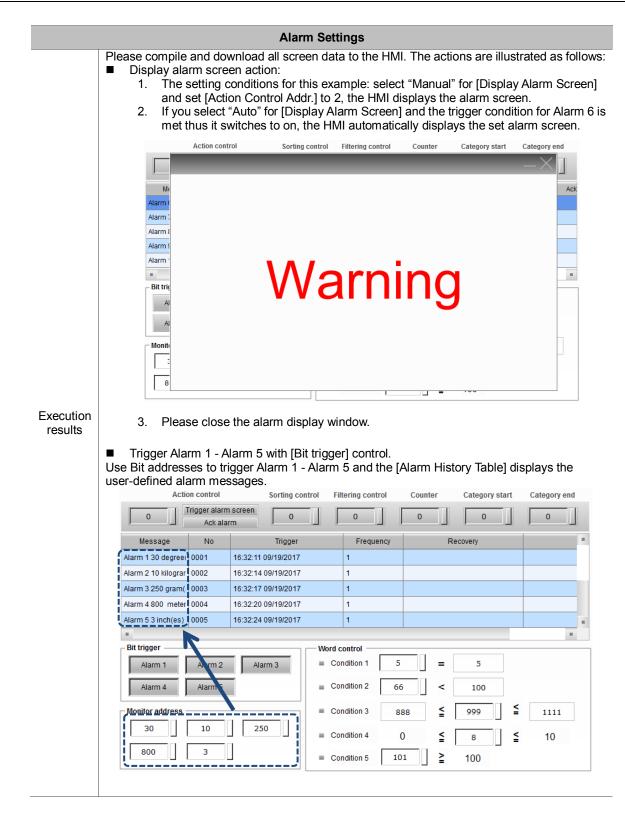
		Alarm Settings
	The [Main] page is	set as below:
Ala	arm History Table	
Create	arm History Table Preview State: 0 Language: Language1 The [Details] page rm History Table	Main Main-2 Details Details-2 Function Button Coordinates Style •
0 La L	tate: anguage: anguage1 * Hement description: Alarm History Table_001	Event Action Control Addr. Sot Use header controls to sort! Sorting Control Addr. Sorting Order Address None sorting Order Address None atarn counter display S4 Alarn category start addr. S5 atarn category end addr. S6



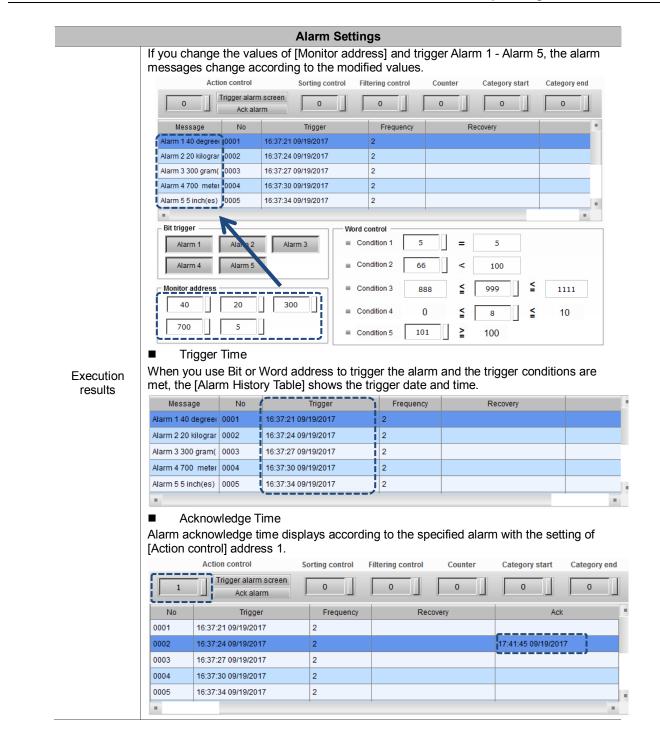






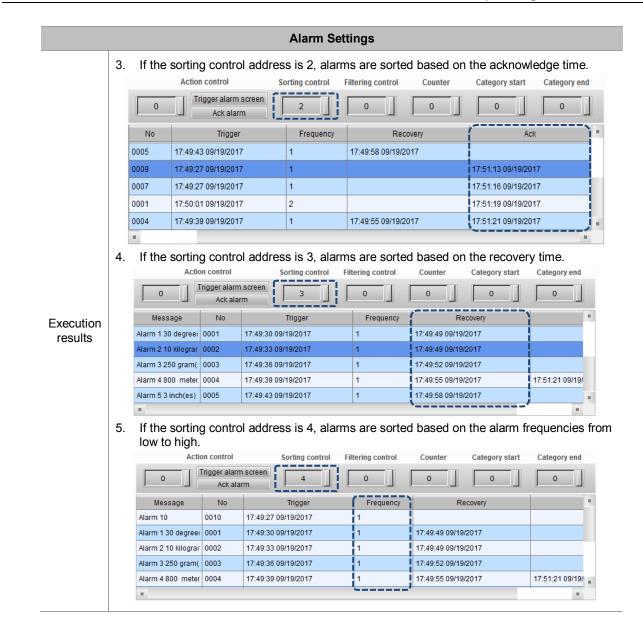




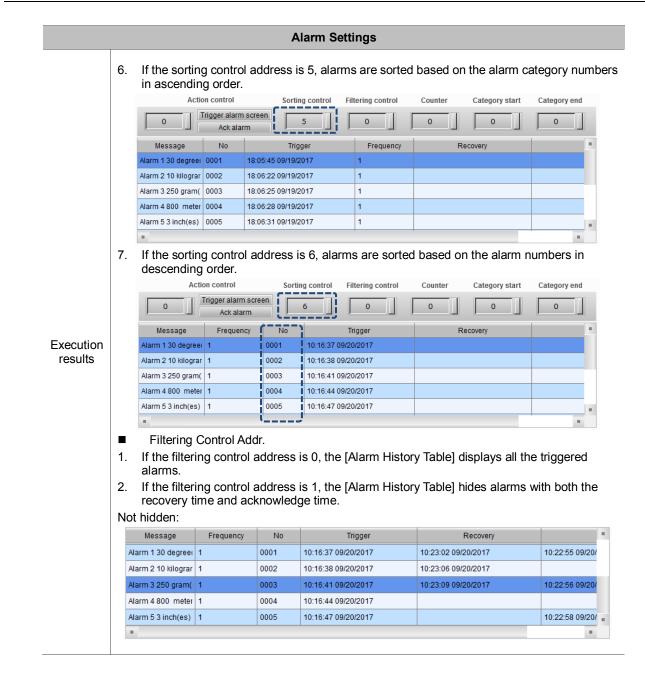




		Alarm Set	tings		
	e Bit add such as C			action or the Word trigge Narm History Table] show	
Message	No	Trigger	Frequency	Recovery	
Alarm 1 40 degree	0001	16:37:21 09/19/2017	2	17:47:08 09/19/2017	
Alarm 2 20 kilograr	0002	16:37:24 09/19/2017	2	17:47:08 09/19/2017	17:41:45 09/19/
Alarm 3 300 gram(0003	16:37:27 09/19/2017	2	17:47:11 09/19/2017	
Alarm 4 700 meter	0004	16:37:30 09/19/2017	2	17:47:11 09/19/2017	
Alarm 5 5 inch(es)	0005	16:37:34 09/19/2017	2	17:47:15 09/19/2017	
	1	1			-
	JUDIAVS		,	arm Screen] is set to "Ma	muar,
Sorting 1. If the sort 2. If the sort Action	Control A ting control ting control Trigger alarm Ack alar	rol address is 0, the rol address is 1, ala Sorting control	Filtering control	Table] has no action. based on the trigger time <u>Counter</u> Category start	
Sorting 1. If the sort 2. If the sort Action Message	Control A ting control ting control Trigger alarm Ack alar	Addr. rol address is 0, the rol address is 1, ala Sorting control	Filtering control	Table] has no action. based on the trigger time	Category end
Sorting 1. If the sort 2. If the sort Action Message Alarm 7	Control A ting contr ting control Trigger alarm Ack alar No 0007	Addr. rol address is 0, the rol address is 1, alar Sorting control screen 1 Trigger 17:49:27 09/19/2017	Filtering control	Table] has no action. based on the trigger time <u>Counter</u> Category start	Category end
 Sorting 1. If the sort 2. If the sort Action Message Alarm 7 Alarm 8 	Control A ting contri ting control Trigger alarm Ack alar No 0007 0008	Addr. rol address is 0, the rol address is 1, alar Sorting control Screen 1 Trigger 17:49:27 09/19/2017	Filtering control	Table] has no action. based on the trigger time <u>Counter</u> Category start	Category end
Sorting 1. If the sort 2. If the sort Action Message Alarm 7 Alarm 8 Alarm 9	Control A ting contri ting control Trigger alarm Ack alar No 0007 0008 0009	Addr. rol address is 0, the rol address is 1, alar Sorting control screen m Trigger 17:49:27 09/19/2017 17:49:27 09/19/2017	Filtering control	Table] has no action. based on the trigger time <u>Counter</u> Category start	Category end
 Sorting 1. If the sort 2. If the sort Action Message Alarm 7 Alarm 8 	Control A ting control ting control Trigger alarm Ack alar No 0007 0008 0009 0010	Addr. rol address is 0, the rol address is 1, alar Sorting control Screen 1 Trigger 17:49:27 09/19/2017	Filtering control	Table] has no action. based on the trigger time <u>Counter</u> Category start	Category end









Alarm Settings

Message	Frequency	No	Trigger	Recovery	
Alarm 9	1	0009	10:16:31 09/20/2017		
Alarm 10	1	0010	10:16:31 09/20/2017	10:23:31 09/20/2017	
Alarm 2 10 kilograr	1	0002	10:16:38 09/20/2017	10:23:06 09/20/2017	
Alarm 4 800 meter	1	0004	10:16:44 09/20/2017		
Alarm 5 3 inch(es)	1	0005	10:16:47 09/20/2017		10:22:58 09/20/

3. If the filtering control address is 2, the [Alarm History Table] hides the alarms with recovery time.

Not hidden:

Message	Frequency	No	Trigger	Recovery		P.
Alarm 1 30 degreei	1	0001	10:16:37 09/20/2017	10:23:02 09/20/2017	10:22:55 09/20	1
Alarm 2 10 kilograr	1	0002	10:16:38 09/20/2017	10:23:06 09/20/2017		
Alarm 3 250 gram(1	0003	10:16:41 09/20/2017	10:23:09 09/20/2017	10:22:56 09/20	1
Alarm 4 800 meter	1	0004	10:16:44 09/20/2017			
Alarm 5 3 inch(es)	1	0005	10:16:47 09/20/2017		10:22:58 09/20	
	1					

Hidden:

Execution results

Message	Frequency	No	Trigger	Recovery		
Alarm 6	2	0006	10:23:24 09/20/2017			
Alarm 10	2	0010	10:23:37 09/20/2017			
Alarm 9	1	0009	10:16:31 09/20/2017			
Alarm 4 800 meter	1	0004	10:16:44 09/20/2017			
Alarm 5 3 inch(es)	1	0005	10:16:47 09/20/2017		10:22:58 09/20	
			•	·		

4. If the filtering control address is 3, the [Alarm History Table] hides the alarms with recovery time and acknowledge time.

Not hidden:

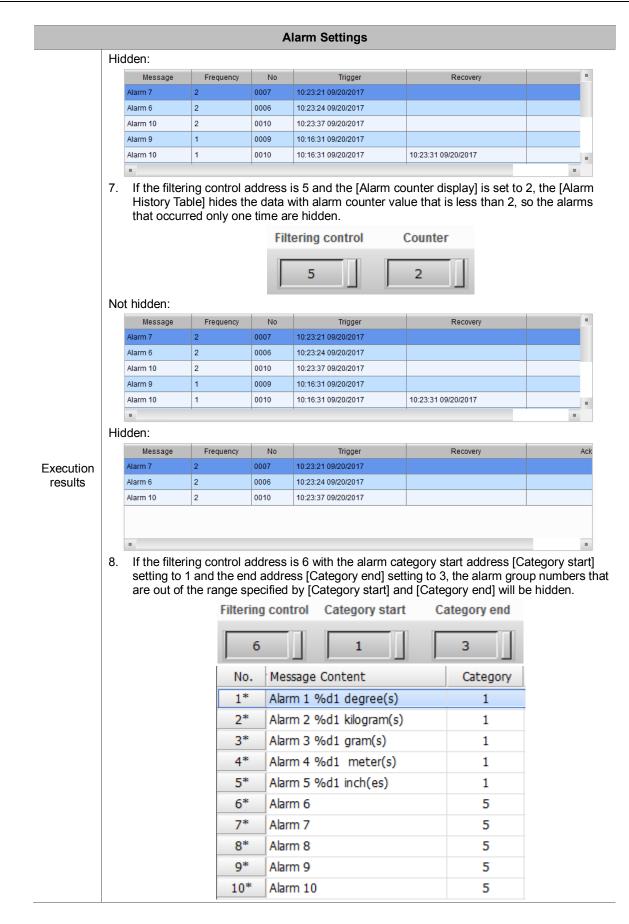
Message	Frequency	No	Trigger	Recovery		
Alarm 1 30 degreei	1	0001	10:16:37 09/20/2017	10:23:02 09/20/2017	10:22:55 09/20/	/
Alarm 2 10 kilograr	1	0002	10:16:38 09/20/2017	10:23:06 09/20/2017		
Alarm 3 250 gram(1	0003	10:16:41 09/20/2017	10:23:09 09/20/2017	10:22:56 09/20/	1
Alarm 4 800 meter	1	0004	10:16:44 09/20/2017			
Alarm 5 3 inch(es)	1	0005	10:16:47 09/20/2017		10:22:58 09/20/	
			·		-	

Hidden:

Message	Frequency	No	Trigger	Recovery	Ack
Alarm 7	2	0007	10:23:21 09/20/2017		
Alarm 6	2	0006	10:23:24 09/20/2017		
Alarm 10	2	0010	10:23:37 09/20/2017		
Alarm 9	1	0009	10:16:31 09/20/2017		
Alarm 4 800 meter	1	0004	10:16:44 09/20/2017		

	5. If the filter acknowled Not hidden:		address	is 4, the [Alarm Histor	y Table] hides the ala	rms with
	Message	Frequency	No	Trigger	Recovery	
	Alarm 1 30 degree	1	0001	10:16:37 09/20/2017	10:23:02 09/20/2017	10:22:55 09/2
	Alarm 2 10 kilograr	1	0002	10:16:38 09/20/2017	10:23:06 09/20/2017	
	Alarm 3 250 gram(1	0003	10:16:41 09/20/2017	10:23:09 09/20/2017	10:22:56 09/
	Alarm 4 800 meter	1	0004	10:16:44 09/20/2017		
	Alarm 5 3 inch(es)	1	0005	10:16:47 09/20/2017		10:22:58 09/
ŀ	Hidden:					
	Message	Frequency	No	Trigger	Recovery	
	Alarm 10	2	0010	10:23:37 09/20/2017		
	Alarm 9	1	0009	10:16:31 09/20/2017		
	Alarm 10	1	0010	10:16:31 09/20/2017	10:23:31 09/20/2017	
	Alarm 2 10 kilograr	1	0002	10:16:38 09/20/2017	10:23:06 09/20/2017	
	ritarin' i ronnograf		0002	10.10.30 08/20/2017	10.20.00 00/20/2011	
	Alarm 4 800 meter		0002	10:16:38 09/20/2017	10.23.00 03/20/2011	
6	Alarm 4 800 meter	1	0004	10:16:44 09/20/2017		o 1, the [Ala
	Alarm 4 800 meter 6. If the filter History Ta	1 ing control a ble] hides tl	address ne data m count	10:16:44 09/20/2017 is 5 and the [Alarm co with alarm counter val that is less than 1, all ring control Co	ounter display] is set t ue that is less than 1.	In this exar
	Alarm 4 800 meter Alarm 4 800 meter If the filter History Ta since there	1 ing control a ble] hides tl	address ne data m count	10:16:44 09/20/2017 is 5 and the [Alarm co with alarm counter val that is less than 1, all ring control	ounter display] is set t ue that is less than 1. alarms are displayed ounter	In this exar
	Alarm 4 800 meter	1 ing control a ble] hides ti e is no alarr	address ne data n count Filte	10:16:44 09/20/2017 is 5 and the [Alarm co with alarm counter val that is less than 1, all ring control Co	ounter display] is set t ue that is less than 1. alarms are displayed ounter	In this exar
e	Alarm 4 800 meter	1 ing control a ble] hides ti e is no alarr	ooo4 address ne data n count Filter	10:16:44 09/20/2017 is 5 and the [Alarm co with alarm counter val that is less than 1, all ring control Co 5	ounter display] is set t ue that is less than 1. alarms are displayed ounter	In this exar
e	Alarm 4 800 meter Alarm 4 800 meter I I I I I I I I I I I I I I I I I I I	1 ing control a ble] hides ti e is no alarr Frequency 2	0004 address ne data n count Filter	10:16:44 09/20/2017 is 5 and the [Alarm co with alarm counter val that is less than 1, all ring control Co 5	ounter display] is set t ue that is less than 1. alarms are displayed ounter	In this exa
	Alarm 4 800 meter Alarm 4 800 meter Filter History Ta since ther Not hidden: Message Alarm 7 Alarm 6	1 ing control a ble] hides ti e is no alarr Frequency 2 2	0004 address ne data n count Filter No 0007 0006	10:16:44 09/20/2017 is 5 and the [Alarm co with alarm counter val that is less than 1, all fing control Co 5 Trigger 10:23:21 09/20/2017 10:23:24 09/20/2017	ounter display] is set t ue that is less than 1. alarms are displayed ounter	In this exar







					ii Settings			
N	ot hidden:							
1.1	Message	Frequency	1	No l	Trigger		Recovery	1
	Alarm 7	2	0007	10:2	23:21 09/20/2017			
,	Alarm 6	2	0006	10:2	3:24 09/20/2017			
,	Alarm 10	2	0010	10:2	23:37 09/20/2017			
1	Alarm 9	1	0009	10:1	6:31 09/20/2017			
1	Alarm 10	1	0010	10:1	6:31 09/20/2017	10:23:31 (09/20/2017	1
		1						
Hi	idden:							
	Message	Frequency	N	lo	Trigger		Recovery	A
A	larm 1 30 degree(1	0001	10:1	6:37 09/20/2017	10:23:02	09/20/2017	10:22:55 09/20/2
A	larm 2 10 kilograr	1	0002	10:1	6:38 09/20/2017	10:23:06	09/20/2017	
A	larm 3 250 gram(1	0003	10:1	6:41 09/20/2017	10:23:09	09/20/2017	10:22:56 09/20/2
A	larm 4 800 meter	1	0004	10:1	6:44 09/20/2017			
A	Narm 5 3 inch(es)	1	0005	10:1	6:47 09/20/2017			10:22:58 09/20/2
						1		
	hidden.	Fil	tering	control	Category star	t C	ategory end	
		Γ	6		3		5	
			No.		e Content		Category	
			1*	Alarm 1	. %d1 degree(s)		1	
			2*	Alarm 2	2 %d1 kilogram(s)		1	
			3*	Alarm 3	8 %d1 gram(s)		1	
			4*	Alarm 4	%d1 meter(s)		1	
			5*		5 %d1 inch(es)		1	
			6*	Alarm 6			5	
			7*	Alarm 7	,		5	
			8*	Alarm 8	}		5	
			- 9*	Alarm 9			-	
				Aldred S)		5	
			-				5	
N	ot hidden:		10*	Alarm 1			5 5	
N	ot hidden:	1	10*	Alarm 1	.0		5	
N	Message	e Freq	-	Alarm 1	.0 Trigger			
N	Message Alarm 7	e Freq 2	10*	Alarm 1 _{No} 0007	0 Trigger 10:23:21 09/20/2017		5	
N	Message Alarm 7 Alarm 6	e Freq 2 2	10*	Alarm 1 No 0007 0006	0 Trigger 10:23:21 09/20/2017 10:23:24 09/20/2017		5	
N	Message Alarm 7	e Freq 2	10*	No 0007 0006 0010	0 Trigger 10:23:21 09/20/2017 10:23:24 09/20/2017 10:23:37 09/20/2017		5	
N	Message Alarm 7 Alarm 6 Alarm 10	e Freq 2 2 2	10*	Alarm 1 No 0007 0006	0 Trigger 10:23:21 09/20/2017 10:23:24 09/20/2017	10:2	5	
N	Message Alarm 7 Alarm 6 Alarm 10 Alarm 9	e Freq 2 2 2 1	10*	Alarm 1 No 0007 0006 0010 0009	0 Trigger 10:23:21 09/20/2017 10:23:24 09/20/2017 10:23:37 09/20/2017 10:16:31 09/20/2017	10:2	5 Recovery	
	Message Alarm 7 Alarm 6 Alarm 10 Alarm 9 Alarm 10	e Freq 2 2 2 1	10*	Alarm 1 No 0007 0006 0010 0009	0 Trigger 10:23:21 09/20/2017 10:23:24 09/20/2017 10:23:37 09/20/2017 10:16:31 09/20/2017	10:2	5 Recovery	
	Message Alarm 7 Alarm 6 Alarm 10 Alarm 9 Alarm 10	e Freq 2 2 2 1 1	10*	Alarm 1 No 0007 0006 0010 0009	0 Trigger 10:23:21 09/20/2017 10:23:24 09/20/2017 10:23:37 09/20/2017 10:16:31 09/20/2017	10:2	5 Recovery	
	Message Alarm 7 Alarm 6 Alarm 10 Alarm 9 Alarm 10 = idden:	e Freq 2 2 2 1 1	uency	Alarm 1 No 0007 0006 0010 0009 0010	0 Trigger 10:23:21 09/20/2017 10:23:24 09/20/2017 10:23:37 09/20/2017 10:16:31 09/20/2017 10:16:31 09/20/2017	10:2	5 Recovery 3:31 09/20/2017	
	Message Alarm 7 Alarm 6 Alarm 10 Alarm 9 Alarm 10 = idden: Messa	e Freq 2 2 1 1 1	uency	Alarm 1 N0 0007 0006 0010 0009 0010 0010	C Trigger 10:23:21 09/20/2017 10:23:24 09/20/2017 10:23:37 09/20/2017 10:16:31 09/20/2017 10:16:31 09/20/2017	10:2	5 Recovery 3:31 09/20/2017	
	Message Alarm 7 Alarm 6 Alarm 10 Alarm 9 Alarm 10 = idden: Messa Alarm 7	e Freq 2 2 1 1 1 1	uency	Alarm 1 No 0007 0006 0010 0009 0010 0009 0010 No 0007	0 Trigger 10:23:21 09/20/2017 10:23:24 09/20/2017 10:23:37 09/20/2017 10:16:31 09/20/2017 10:16:31 09/20/2017 Trigger 10:23:21 09/20/2017		5 Recovery 3:31 09/20/2017	
	Message Alarm 7 Alarm 6 Alarm 10 Alarm 9 Alarm 10 • • • • • • • • • • • • • • • • • • •	e Freq 2 2 1 1 1 1 9 9 9 9 9 9 9 9 9 9 9 9 9 9	uency	Alarm 1 No 0007 0006 0010 0009 0010 0009 0007 0007 0007 0007 0007 0007	0 Trigger 10:23:21 09/20/2017 10:23:24 09/20/2017 10:16:31 09/20/2017 10:16:31 09/20/2017 Trigger 10:23:21 09/20/2017 10:23:21 09/20/2017		5 Recovery 3:31 09/20/2017	

Alarm Settings

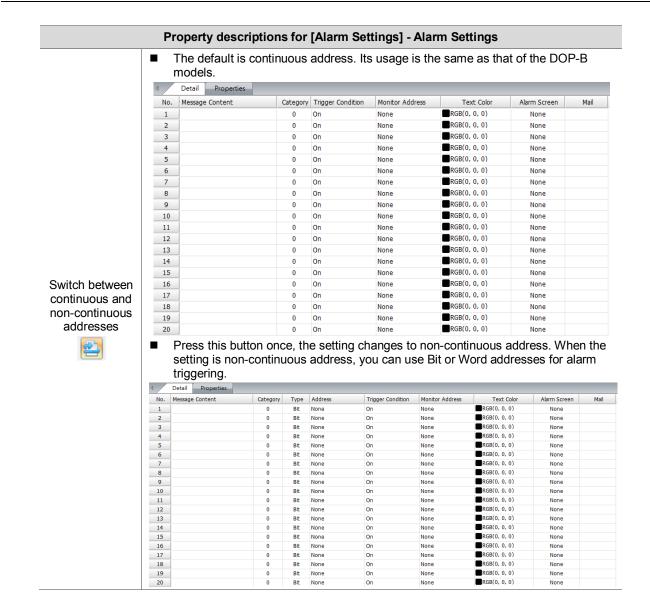


The following introduces the detailed property functions for [Alarm Settings].

Table 12.2 Properties for [Alarm Settings]

Property description	s for [Alarm Settings]
🖿 🏝 🗷 🗵 İ 12 🔹 🏋 Arial	- 100% - E
	Þ
🖃 Address	
Address	None
Detail	
Scan Time (seconds)	3
Max Records	500
Non-volatile Data Storage	None
Export CSV File	No
Exit Screensaver when alarm occurs	Yes
Disply alarm screen	Auto
Alarm Moving Sign	
Enable	No
Position	Тор
Direction	Left
Points per time	1
Interval (ms)	100
Background color	fcfcfc
Translucent	255





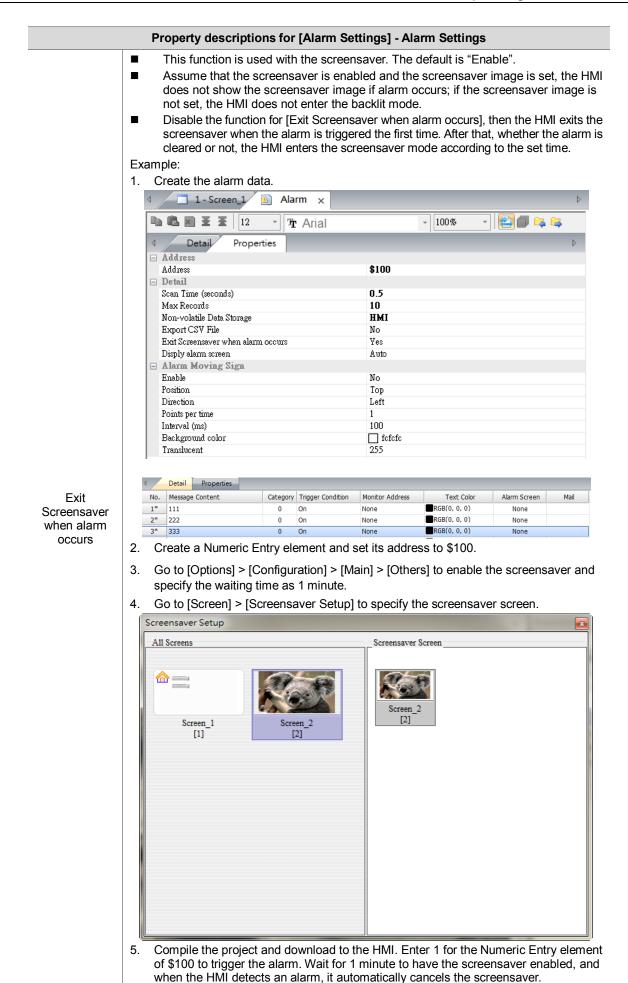


	Proper	ty descriptions for [A	larm Settings] - Ala	arm Settings	
	 Avail For c Butto Note: if you h 	on Element in the DOP- have created an alarm rela	al memory and contr ement type selectio 100 user manual. ted element without se	oller register address. n, please refer to Chapte etting the alarm read address below when data compiling	S,
		Ouput		ф ×	
		🚺 Message 🔀 Err	or 💭 Warning 📗	×	
		Message			
		X Alarm function must	be enabled before the	alarm element is used.	
Read Address					
		Ouput Search Res	ults 1 Search Re	sults 2	
Scan Time (seconds)	 Detail Scan Time (s Max Records Non-volatile Export CSV 1 	Data Storage File ver when alarm occurs screen	y to execute the sar 0.5 1 2 3 4 5 6 7 8 9 10	npling action.	



	Property descriptions for [Alarm Settings] - Alarm Settings								
	[Max Records] is the recorded data. When the number of the recorded sampling points reaches the maximum, the record starts from 1 and overwrites the previous data.								
	■ The maximum savable data entry is 9,999.								
	Note:								
Max Records	 The maximum record must not be 0. If you enter 0, the software prompts a warning as shown below. 								
	DOPSoft								
	DOPSOIT								
	Max records must be between 1 to 9999								
	ОК								
	Options for the storage location include None, HMI, USB Disk, and SD Card.								
	If you cannot use an SD Card on the model, it only shows the supported items, HMI and USB Disk; on the other hand, if you cannot use a USB Disk on the model, it only shows the supported items, HMI and SD Card.								
	Detail Scan Time (seconds) 3								
	Max Records 500								
Non-volatile	Non-volatile Data Storage None Export CSV File None								
	Exit Screensaver when alarm occurs HMI								
	Disply alarm screen SD								
	When you choose to store the data in the HMI, it means when the power is cut off,								
	the data is saved in the HMI SRAM.								
	If [Export CSV File] is checked, please set the non-volatile memory to USB Disk or								
	SD Card.								
	Checking the box [Export CSV File] means you can save the alarm data as CSV files in the external storage devices, USB Disks or SD cards.								
	A B C D E F G H I J K L M								
	Group No. Trigger Time ACK Time Recovery Time Message								
	<u>1</u> 2015/3/27 13:08:25 2015/3/27 13:08:27 alarm 1 30 度								
	1 2015/3/27 13:08:25 🗘 2015/3/27 13:08:27 alarm 2 10 F								
Export CSV	1 2015/3/27 13:08:25 2015/3/27 13:08:27 alarm 3 250 克								
File	1 2015/3/27 13:08:26 2015/3/27 13:08:27 alarm 4 800 尺								
	1 2015/3/27 13:08:26 2015/3/27 13:08:28 alarm 5 3 # j								
	1 2015/3/27 13:08:28 2015/3/27 13:08:31 alarm 1 30 度								
	1 2015/3/27 13:08:29 2015/3/27 13:08:31 alarm 3 250 克								
	1 2015/3/27 13:08:29 2015/3/27 13:08:30 alarm 5 3 时								
	1 2015/3/27 13:08:30 2015/3/27 13:08:31 alarm 2 10 斤								
	1 2015/3/27 13:08:30 2015/3/27 13:08:31 alarm 4 800 尺								

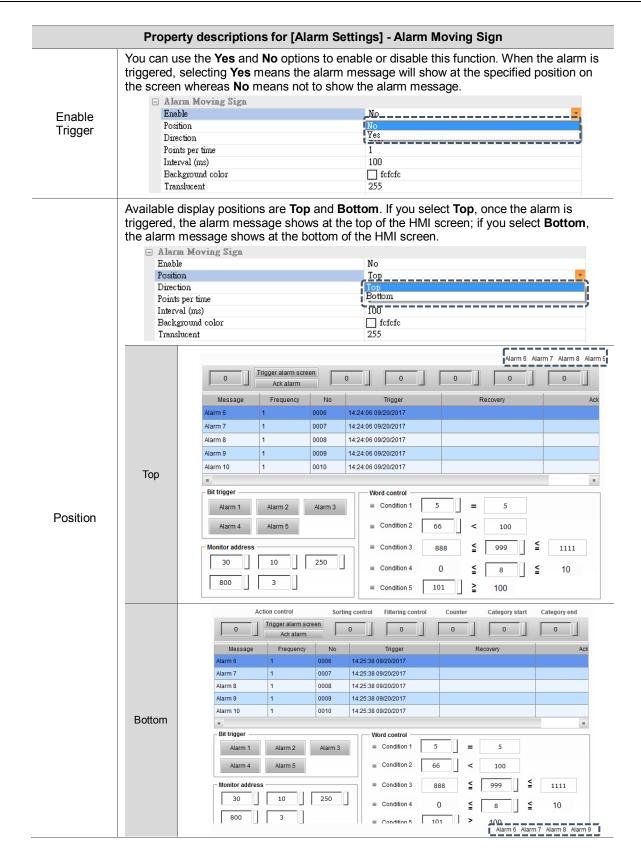




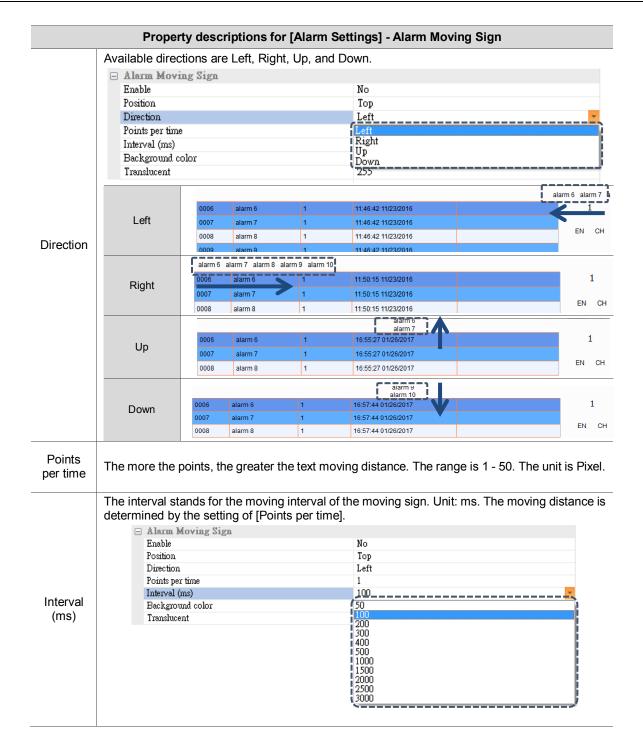


Property descriptions for [Alarm Settings] - Alarm Settings						
Display alarm screen	 It is categorized into Auto and Manual modes. Auto: the HMI displays the alarm screen as soon as the alarm with a set alarm screen is triggered. Manual: to have the HMI display the alarm screen, you must go to the [Details] page for the Alarm History Table element and enter 2 for the [Action Control Addr.]; or go to the [Function Button] page for the Alarm History Table element and use the [Trigger alarm screen] button. 					











Pr	operty des	cript	tions	for [A	larm \$	Setting	gs] - Alarm Me	ssage Displa	ay Content
		id col white.		ne alar	m mov	/ing sign as sh	own in the fig	ure below.	
							aiarn	1 10	
	0006 a	alarm (6		1		17:03:36 01/26/20	17	
Background Color	0007 a	alarm i	7		1		17:03:36 01/26/20	17	
COIOI		alarm (1		17:03:36 01/26/20		
		alarm (1		17:03:36 01/26/20		
		alarm '			1		17:03:36 01/26/20		
	0010	alalili	10		1		17:03:30 0 1/20/20		
	Set the tra The minim			y leve	l for th	ie mes	sage of the al	arm moving s	ign. The default is 25
							alarm alarm		
			No	Mess	sage	Frequency	Trigger	Ack	Recovery
	Set the		0006	alarm 6		1	14:55:57 02/09/2017		
	value to 2		0007	alarm 7		1	14:55:57 02/09/2017		
			8000	alarm 8		1	14:55:57 02/09/2017		
T			0009	alarm 9		1	14:55:57 02/09/2017		
Translucent			0010	alarm 10		1	14:55:57 02/09/2017		
	alarm 10 alarm ñ								
	Set the value to 100		No	Mess	sage	Frequency	Trigger	Ack	Recovery
			0006	alarm 6		1	15:15:25 02/09/2017		
			0007	alarm 7		1	15:15:25 02/09/2017		
			8000	alarm 8		1	15:15:25 02/09/2017		
			0009	alarm 9		1	15:15:25 02/09/2017		
			0010	alarm 10		1	15:15:25 02/09/2017		
									essage content or leav reminding you that this
	alarm message exists unless you use 📧 to delete the alarm message.								
	Detail Properties								
	No. Message Content								
No.	1*								
					2*				
				- i					
				-	3*	i			
					4*				
					5*				



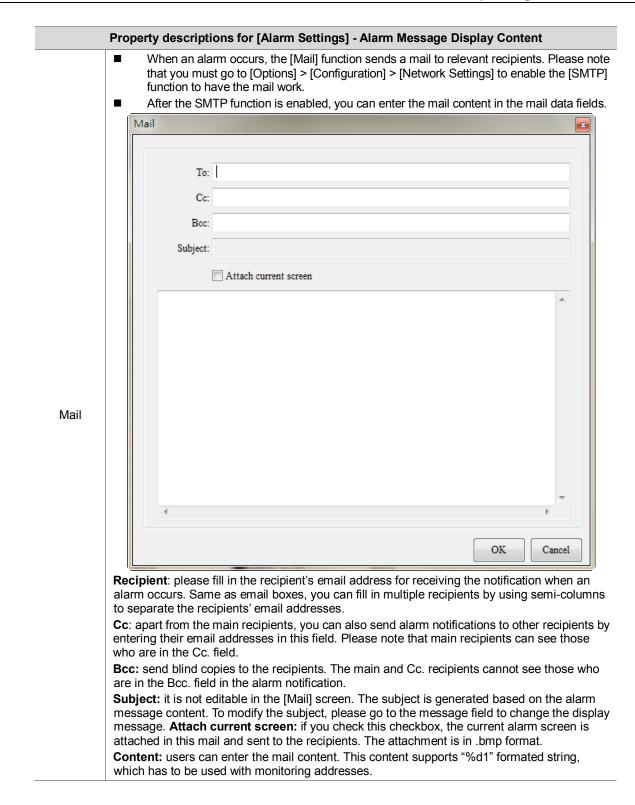
	[No.] stands for the	Detail Properties	, .		
	No.	Message Content	Category	Trigger Condition	
	4071		0	On	
	4072		0	On	
	4073		0	On	
	4074		0	On	
	4075		0	On	
	4076		0	On	
	4077		0	On	
	4078		0	On	
	4079		0	On	
	4080		0	On	
No.	4081		0	On	
	4082 4083		0	On On	
	4083		0	On	
	4084		0	On	
	4086		0	On	
	4087	}	0	On	
	4088	}	0	On	
	4089	}	0	On	
	4090		0	On	
	4091		0	On	
	4092		0	On	
	4093		0	On	
	4094		0	On	
	4095		0	On	
	4096	j	0	On	_
		arm messages to dis			
	 If you want to modif Provide "%d1" form This string has to b Note: if you have created an blank, the software prompts Oupu 	fy the message, you natted string suffixing e used with monitor alarm related element a warning message sh t lessage	a can modify it g to the messa ing addresses with alarm reac nown below whe	directly in the fig ige content, e.g. l address, but left	Alarm%d1.
	 If you want to modif Provide "%d1" form This string has to b Note: if you have created an blank, the software prompts Oupution 	fy the message, you natted string suffixing e used with monitor alarm related element a warning message sh t lessage	t can modify it g to the messa ing addresses with alarm reac nown below whe	directly in the fig ige content, e.g. daddress, but left n data compiling. 4 ×	Alarm%d1.
ssage	 If you want to modif Provide "%d1" form This string has to b Note: if you have created an blank, the software prompts Oupution 	fy the message, you natted string suffixing e used with monitor alarm related element a warning message sh t lessage Error ge	t can modify it g to the messa ing addresses with alarm reac nown below whe	directly in the fig ige content, e.g. daddress, but left n data compiling. 4 ×	Alarm%d1.
essage	 If you want to modif Provide "%d1" form This string has to b Note: if you have created an blank, the software prompts Oupution 	fy the message, you natted string suffixing e used with monitor alarm related element a warning message sh t lessage Error ge	t can modify it g to the messa ing addresses with alarm reac nown below whe	directly in the fig ige content, e.g. daddress, but left n data compiling. 4 ×	Alarm%d1.
	 If you want to modif Provide "%d1" form This string has to b Note: if you have created an blank, the software prompts Oupution 	fy the message, you natted string suffixing e used with monitor alarm related element a warning message sh t lessage Error ge	t can modify it g to the messa ing addresses with alarm reac nown below whe	directly in the fig ige content, e.g. daddress, but left n data compiling. 4 ×	Alarm%d1.
	 If you want to modif Provide "%d1" form This string has to b Note: if you have created an blank, the software prompts Oupution 	fy the message, you natted string suffixing e used with monitor alarm related element a warning message sh t lessage Error ge	t can modify it g to the messa ing addresses with alarm reac nown below whe	directly in the fig ige content, e.g. daddress, but left n data compiling. 4 ×	Alarm%d1.
	 If you want to modif Provide "%d1" form This string has to b Note: if you have created an blank, the software prompts Oupution 	fy the message, you natted string suffixing e used with monitor alarm related element a warning message sh t lessage Error ge	t can modify it g to the messa ing addresses with alarm reac nown below whe	directly in the fig ige content, e.g. daddress, but left n data compiling. 4 ×	Alarm%d1.

	Property descriptions for	[Alarm Settin	gs] - Alarn	n Messa	ge Displ	ay Content				
	The category of the The summation of the The summation of the second secon		which idea	is simila	r to grou	ps.				
	The supported range	4	-							
	You can use the batch tasks tool I to quickly set the category numbers.									
	4 ☐ 1 - Screen_1 ⓐ Alarm ×									
	12 🗈 🗈 💌	• The Arial		-	100%	- 😫 🗇 🔁 📮				
	set [Category ID] to !					nding Alarm Number], rm 1 - 10 are defined as				
	Group 5.	Alarm Category Set	tings		×					
		Starting Alarm N	umber	1						
		Ending Alarm N	umber	4096	-					
		Category ID		0	÷					
Catagory			Batch Setting							
Category		Alarm No.	Category		<u> </u>					
		1	0							
		2	0							
		3	0							
		4	0							
		5	0							
		6	0							
		8	0							
		9	0							
		10	0							
		11	0							
		12	0							
		13	0		-					
				Close						
Туре	 When the alarm cont the alarm read addres the alarm address ty Available types are E Bit address: user-def Word address: user- 	ess is disabled. pe setting whic Bit and Word. fined Bit addres	You can tri h is Bit or V	gger the Word. n triggerir	alarms ir ng.	this field shows up and ndividually depending on				
	alarm address type s	s disabled. You etting which is I	can trigger Bit or Word	the alarr	ns individ	is field shows up and the lually depending on the cording to the setting				
	types (Bit or Word).			, <u>g</u> , , , , , , , , , , , , , , , , , , ,						
	If you select Bit, please									
	If you select Word, pl	ease provide st	atements fo	or determ	ining whe	ether to trigger the alarm				
Address	S	Statement	Trig	ger timing	I					
		=	E	Equal to						
	_	>	Gre	eater than						
		<	Le	ess than						
		>=	Greater t	han or eq	ual to					
		<=	Less th	an or equ	al to					
		>,<	Out c	of the rang	je					
		<= , <=	Withi	n the rang	je					



	Property descriptions	for [Alarm Settin	gs] - Alarm Messa	ge Display Content		
Trigger Condition	The trigger conditions a bit is on; if you select o			ns the alarm is triggered wher en the bit is off.	n the	
Monitoring Address	 [Monitoring Addr Suffix the string ' 	ess] is for displayin '%d1" to the input r pple, when the mon 10". setting: Detail No. Messa 1* Alarm 3* Alarm	ig the user-defined nessage in the me itoring address is f	alarm messages. ssage field. Take message I0, the Alarm History Table The Aria		
	Execution result:	5* Alarm	5 %d1 inch(es) Frequency	No		
	A	larm 1 30 degreei		0001		
	A	larm 2 10 kilograr	1	0002		
	A	larm 3 250 gram(1	0003		
	A	larm 4 800 meter	1	0004		
	A	larm 5 3 inch(es)	1	0005		
Text Color	The alarm message te	xt color to display.	The default is black	ς.		
Alarm Screen	The alarm message text color to display. The default is black. Set whether to show the specified alarm screen when the alarm is triggered. If you have created other screens, use the drop-down list to select the screen number to display. Text Color Alarm Screen RGB(0, 0, 0) None RGB(0, 0, 0) None RGB(0, 0, 0) RGB(0, 0, 0) Creen_1 2 - Screen_2					







	Property descriptions for [Alarm Settings] - Alarm Message Text Properties
B B	🖹 👻 🛣 🛛 12 📑 🎦 Arial 📑 100% 📑 🚔 🗐 📪 🛱
Сору	 Support single and multiple copy functions. Use the Ctrl key to select the alarm number to copy and use the Shift key to select a range of alarm numbers to copy.
Paste	The paste icon is available after you click the copy icon. It supports single and multiple paste functions.
Delete	After you created the alarm message, you can select the message to be deleted and click the delete button to complete the deletion. Note: if you enter the message in the [Message] field and then move on to the next row, it means you have created a new alarm message. Next, if you delete this alarm message with the Delete or Backspace key on the keyboard instead of the delete button the delete button with the Delete or Backspace key on the keyboard instead of the delete button the screens to the HMI.
	Message Frequen No Trigger Recovery Ack 1 000 16:24:32 02/09/2017
Font	The alarm message font to display. It is user-defined.
	The Arial
Size	The alarm message text size to display. 12 8 10 12 14 16 18 20 22 24 28 32 36 40 48 64 72 96 128 160 192 224



Р	Property descriptions for [Alarm Settings] - Alarm Message Text Properties						
🗈 🛍 🗙	🗕 🚡 12	• The Arial		- 100%	- 🖹) 📪 🛱	
	If you have set The default is 7	the zooming function 100%.	, you can see the z	cooming effe	ct on the title a	and text.	
Zoom in / out		Message	Trigger	No		1	
	100%	####	hh:mm:ss mm/o	dd/yy 1			
		Message	Trigger	No		1	
	150%	####	hh:mm:ss m.	1			
Next 2048 entries Previous 2048 entries		k ॾ , it shows alarm					
	Users can click are .xls, .xlsx, . Open		mport the alarm da	ata. Supporte	ed file formats		
	Organize 👻 New fo	<u>^</u>				• 🔟 🔞	
Import	 ★ Favorites ■ Desktop Downloads ③ Recent Places ② Libraries ③ Documents ④ Music ■ Pictures Videos Pictores ▲ Local Disk (C;) ③ CD Drive (D;) Virt File 	AvisSys AvisSys PerfLogs Vigram Files Vigram Vigram Vigram Windows	2016/03/07 9:33 Fil 2009/07/14 10:37 Fil 2016/03/07 10:43 Fil 2016/01/28 10:46 Fil	ype Siz ile folder ile folder ile folder ile folder ile folder	✓ Excel File(*.adş,*.a<%.adş,*.ads,*.adş,*.ads,*.adş,*.ads,*.a	2	
					Excel File(*.xls;*.xls Alarm Describe Fil INI File (*.ini)	x) e (*.alm)	



 Users can export the edited alarm messages. Supported file formats are .xls and .klsx. Image: Computer Lead Disk(C) + (+) Sector Lead Disk(C) + (+	🗈 🛍 💌	▼ ₹ 12	· 4	Arial		- 100)% -	🗳 🎒 😫	ş 😝
Export Image: Second Local Dick(C) + + + + + + + + + + + + + + + + + + +				t the edited	l alarm messages	. Supporte	ed file formats	s are .xls	
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		А	В	С	D
	1	[Language]	[Font]	[Size]	[Ratio]
	2		字型	大小	縮放
	3	Languagel	Arial	12	100
	4	Language2	Arial	12	100
	5				
	6	Alarm Setting	位址		
	7	Address	讀取位址	None	
	8	Scan Time	取樣週期(秒)	0.500000	
	9	Max Records	最多可存筆數	9999	
	10	Hold	啟用斷電保持	1	
	11	Hold Place	斷電保持於	0	
Export 🚘	12	CSV	輸出CSV	0	
Export	13	Exit Screen Saver	警報發生時離開螢幕保	1	
	14	Screen Display Mode	警報畫面顯示	1	
	15	Continue Address	警報位址連續	0	
	16				
	17	Alarm Moving Sign	警報走馬燈		
	18	Enable	啟動	1	
	19	Position	視屏顯示位置	0	
	20	Direction	移動方式	3	
	21	Moving Points	每次移動點數	1	
	22	Interval	間隔時間(毫秒)	100	
	23	BackgroundColor	背景顏色	RGB(252,252,252)
	24	Opacity	半透明	255	



12.1 **Alarm History Table**

The Alarm History Table is different from the previous alarm record. For easier viewing of the table, alarm trigger time, alarm acknowledge time, and alarm recovery time are added, so that the alarm triggered and recovered times are listed in the same table.

No	Message	Frequency	Trigger	Ack	Recovery
0006	alarm 6	1	18:00:57 02/09/2017		18:01:02 02/09/2017
0007	alarm 7	1	18:00:57 02/09/2017		
0008	alarm 8	1	18:00:57 02/09/2017	18:01:16 02/09/2017	
0009	alarm 9	1	18:00:57 02/09/2017	18:01:18 02/09/2017	18:01:24 02/09/2017
0010	alarm 10	1	18:00:57 02/09/2017		

You can also sort the alarms, set filter conditions, and use other functions to determine the displayed alarms. To enhance the readability of the data, you can filter the information you want to see and sort in ascending or descending order.

Please refer to Table 12.1 [Alarm Settings] example for the Alarm History Table setting example.



The following figure shows the property setting screen when you double-click the Alarm History Table.

Alarm History Table							×
Preview	Main	Main-2	Details	Details-2	Function Button	Coordinates	
and the second s	Style Backg	round Color:		.			
		r Color: ne Color:		•			
State:	Row (•			
Language: Language1 ~	Select	Row Color: Gridlines:	Yes				
Element description: Alarm History Table_001	5104	ondines.	103				
				,		OK	Cancel

Figure 12.1.1 Properties of the [Alarm History Table]

	Alarm History Table					
Function page	Description					
Preview	Alarm History Table elements do not support multiple status values and multi-language data display.					
Main	Set the [Background Color], [Border Color], [Gridline Color], [Row Color], [Alternating Row Color], [Select Row Color], and [Show Gridlines] of the elements.					
Main-2	Set the [Transparent], [Animation], and [Anti-aliasing].					
Details	Set the [Action Control Addr.] of the event; check the [Use header controls to sort], set the [Sorting Control Addr.] and sort in ascending or descending order; set the [Filter control address], [Alarm counter display] address, [Alarm category start addr.], and [Alarm category end addr.].					
Details-2	Set the displaying alarm columns, width, description, and the order of the columns. Set the [Title Text Alignment], [Title Background] color, [Title Text Color], and format / color of the date / time.					
Function Button	Set the Event control function button by checking the [Trigger alarm screen] and [Ack alarm]; set the displaying texts and default width / height of the buttons.					
Coordinates	Set the X and Y coordinates, width, and height of the elements.					



	M	ain
_		ann

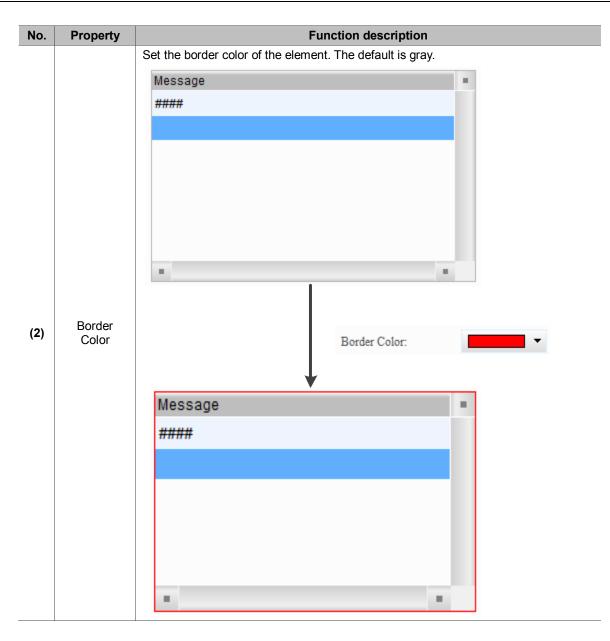
Alarm History Table		x
Preview	Main Main-2 Details Details-2 Function Button Coordinates	
	Style (1)	
	Background Color:	
A	Border Color:	
	Gridline Color:	
State:	Row Color: (4)	
Language:	Alterning Row Color: (5)	
Language1	Select Row Color:	
Element description:	Show Gridlines: Yes (6)	
Alarm History Table_001	(7)	
	OK Cance	el

Figure 12.1.2 [Main] property page for the Alarm History Table element

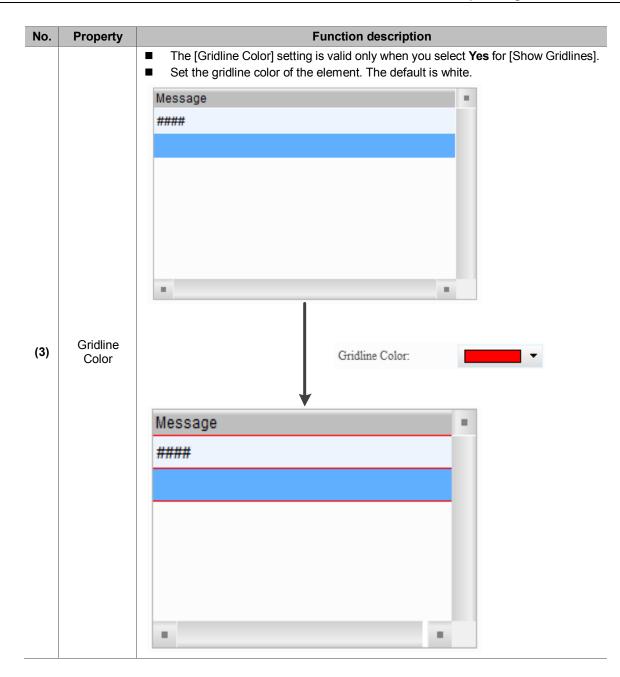




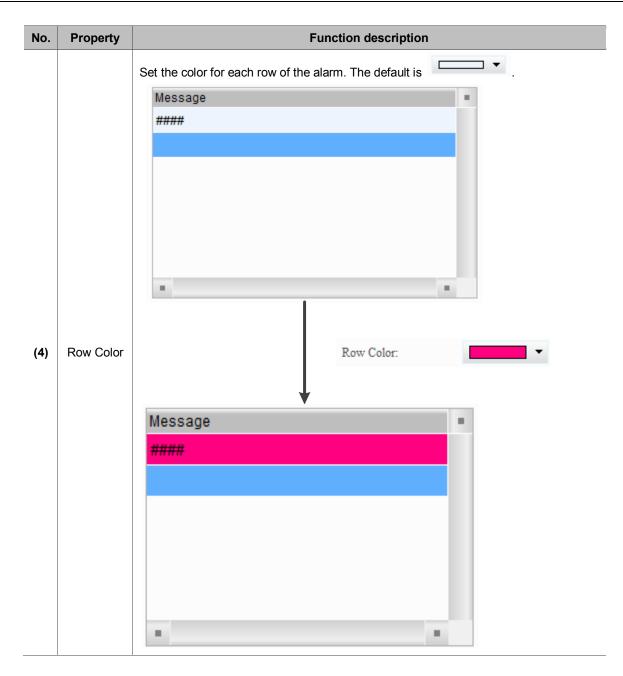








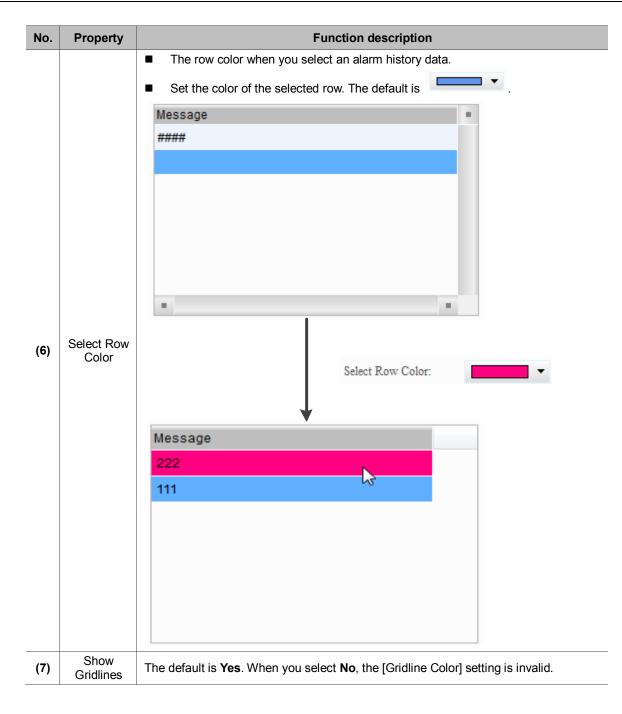














larm History Table						×
Preview	Main Main-2	Details D	etails-2 Fi	unction Button	Coordinates	
	Style			(1)		
	Transparent:	þ55				
	Animation:	No		(2)		
×*	Anti-aliasing:	Yes				
State:			7	(3)		
0 ~						
Language:						
Language1 v						
Element description:						
Alarm History Table_001						
					OK	Cancel

Main-2

Figure 12.1.3 [Main-2] property page for the Alarm History Table element

No.	Property	Function description
(1)	Transparent	You can set the transparency value within the range of 50 to 255. The default is 255. The smaller the value, the higher the transparency of the element.
(2)	Animation	The [Animation] function is not available for this element.
(3)	Anti-aliasing	The [Anti-aliasing] function is not available for this element.



Details

Alarm History Table					×
Preview	Main Main-2 Details	Details-2	Function Button	Coordinates	
	Event (1) Action Control Addr.	None			
	Sort				
State: (2)	Use header controls to sort				
Language:	Sorting Control Addr.	None			
Language1	Sorting Order Address	None			
Element description: Alarm History Table (3)	Filter				
	Filter control address	None			
(4)	Alarm counter display	None			
(5)	Alarm category start addr.	None			
	Alarm category end addr.	None			
(6)					
(6)				OK	Cancel

Figure 12.1.4 [Details] property page for the Alarm History Table element

No.	Property	Function description					
			You can specify the alarms to change screens or acknowledge the alarms with Action Control Addr.] setting.				
	Value	Description					
(1)	(1) Action Control Addr.	0	Default; no actions.				
(-)		Control Addr.	1	Acknowledge the selected alarms in the Alarm History Table.			
		2	If the selected alarm in the Alarm History Table has a set alarm screen which is set to display manually, the alarm screen is displayed when the value is 2.				

No.	Property					Function descri	ption				
		Alar orde	m Histo	ry Table you che	head eck th	e header controls t der to sort the alarr his function, you ca	to sort], ns in as	cending or des	cending		
		Messag	ge Fre	equency	No	Trigger		Recovery	1		
		Alarm 6	1	0	006	15:21:00 09/20/2017					
		Alarm 7	1	0	007	15:21:00 09/20/2017	~				
		Alarm 8	1		008	15:21:00 09/20/2017					
		Alarm 9	1		009	15:21:00 09/20/2017					
		Alarm 10	1	0	010	15:21:00 09/20/2017					
		colu	ımn.			sort] does not supp for sorting with the		-	-		
			Value			Descrip	otion				
(2)	Sorting		0	Default	nos	ortina.					
(-)	Control Addr.	-	1		-	er Time.					
		-									
		-	2			owledge Time.					
		_	3 Sort by Recovery Time.								
		_	4	Sort by	the a	larm count.					
		5				Sort by the alarm category.					
		6 Sort by the alarm No.									
						1 and the [Sorting ng order. Descrip		Addressj to U, t	ne trigger		
			-	0	Sort in	ascei	nding order.				
		-	1	Sort in	desce	ending order.					
		You can	filter the	e specifi	ed ite	em with the [Filter of	control a	address].			
		Value		•		Descrip		-			
		0	Default;	display a	all trig	gered alarms.					
		1				ecovery Time and A	cknowled	lge Time.			
		2				ecovery Time.		0			
(0)	Filter control	3	Hide the	e alarms v	with R	ecovery Time or Ack	nowledg	e Time.			
(3)	address	4	Hide the	alarms v	with A	cknowledge Time.					
		5	This setting must be used with the [Alarm counter display].					Alarm counte			
		6	display], the alarm is hidden. This setting must be used with the [Alarm category start addr.] and [Alarm cate end addr.]. When the alarm category number is not within the range set by the two addresses, the alarm is hidden.								
		– Th:		-							
			-			ed with the [Filter co address] is set to 5		=			
			-						alarm coun		
(1)	Alarm		Example				Descrip				
(4)	counter display		ed alarms ounts of 1		ala	ou input 1, the Alarm rms with 1 or more al plays the triggered al	arm cou	nts; if you input 2	2, the Table		



No.	Property	Function description					
(5)	Alarm group start addr.	 This setting must be used with the [Filter control address]. When the [Filter control address] is set to 6, input the alarm category number. 					
(0)		Example Description					
	A 1	Alarms with alarm	When you input 1 to the [Alarm group start addr.] and 3 to the [Alarm group end addr.], the Alarm History Table displays the category 1 triggered alarms;				
(6)	Alarm group end addr.	category number 1 and 5	When you input 1 to the [Alarm group start addr.] and 5 to the [Alarm group end addr.], the Alarm History Table displays the category 1 and 5 triggered alarms.				



Alarm History Table				×
Preview (1)	Main (2)	Details Details-2	(3) Button	Coordin (4)
	No.	30 🔶 No	Alarm M	essage
	🔲 Group	50 🔶 Group		
	🔲 Trigger Time	120 🔶 Trigger		
k	🔽 Alarm Message	250 🔶 Message	•	
State:	Alarm Counts	50 🔶 Frequen	cy	
0	🔲 Recovery Time	120 A Recover	y	
	Confirmation Time	e 120 🔶 Ack	;	
Language1	The total width of	F columns: 250 Pixels		
Element description:	Title Text Alignmen	nt Align Left	Date Format:	mm/dd/yy 🔻
Alarm History Table_001	Title Background		▼ Time Format:	HH:MM:SS -
	Title Text Color		 Color 	-
		/		
	(5)		(6)	
				OK Cancel

Details-2

Figure 12.1.5 [Details-2] property page for the Alarm History Table element

No.	Property			Fu	nction description					
(1)	Column display	Check the co	Check the columns you want to display in the element.							
(2)	Column width	You can adjı	ust the width for	each	column.					
(3)	Column title	You can defi	ne the titles for	each	column.					
(4)	Column order		After checking the columns you want to display, you can use the and subtractions to adjust the column displaying order.							
			Set the column	n title i	to align left, center, or ri	ght.				
		Align Left	No 1	Message ####	Frequency #					
(5)	(5) Title	Title Text Alignment				Center	No 1	Message ####	Frequency #	
			Align Right	No 1) Message ####	Frequency #				



No.	Property			Fur	nction descrip	otion		
			Set the backgro	ound c	olor of the colu	umn title.		
				No	Message		Frequency	
		Default	1	####		#		
		Back-						
		ground		No	Message		Frequency	
			After change	1	####		#	
(5)	Title		Set the text cold	or of th	he column title) <u>.</u>		
				No	Message		Frequency	
			Default	1	####		#	
		Text Color						
				No	Message		Frequency	
			After change	1	####		#	
			Alter change					
			Select the displ	av for	mat for the dat	te from th	ne following options.	
			ay ion					
		Date Format		Date	e Format:	mm/dd mm/dd		
				Tim	e Format:	dd/mm	√уу	
						dd.mm yy.mn		
				or	yy/mm	n/dd		
						mm.dd mm/dd		
			Select the displ	ay fori	mat for the tim	e from th	ne following options.	
	Data and	Time		Tim	e Format:	HH:M	M:SS -	
(6)	Date and time	Format		1 1110	e i offiliat.	HH:M		
				Colo	or	HH:M	M	
			Set the displayi	ng col	or of the date	and time	2.	
				No	Trigger	F	Recovery	
			Default	1	hh:mm:ss mi	m/dd/yy h	nh:mm:ss mm/dd/yy	
		Color						
				No	Trigger	F	Recovery	
			After change	1	hh:mm:ss mr	m/dd/yy h	nh:mm:ss mm/dd/yy	



Alarm History Table		x
Preview	Main Main-2 Details Details-2 Function Button Coordinates	
(1)	Event control function button (3) Function description Trigger alarm screen Ack alarm	
State: 0	(2)	
Alarm History Table_001	Button Default Width 60	
	Button Default Height 40 🔄	

Function Button

Figure 12.1.6 [Function Button] property page for the Alarm History Table element

No.	Property	Function description						
		[Trigge ■ By trig You ca	er alarm screen] a gering with the fu	inction buttons, it is easier to edit the screen. Ins provided by the event control address without				
(1)	Function Button	Value	Function Button	Description				
(-)		0	Default; no actior	IS .				
			1	Ack alarm	Acknowledge the selected alarms in the Alarm History Table.			
		2	Trigger alarm screen	If the selected alarm in the Alarm History Table has a set alarm screen which is set to display manually, the alarm screen is displayed when the value is 2.				
(2)	Set as default description	Click this button to insert the default texts to the spaces above.						
(3)	Default text	Click Set as default description to insert the default texts to the spaces. You can also enter user-defined texts.						
(4)	Button Default Width and Height	You can a	You can also enter user-defined texts.					



Coordinates

Alarm History Table								×
Preview	Main	Main-2	Details	Details-2	Functio	n Button	Coordinates	
Jacob La Carlos	Coordi	nates						
		X:	86	* *	Y:	92		(1)
							<u> </u>	
×		Width:	581	•	Height:	377		(2)
State:								
0 -								
Language:								
Language1 💌								
Element description:								
Alarm History Table_001								
							OK	Cancel

Figure 12.1.7 [Coordinates] property page for the Alarm History Table element

No.	Property	Function description
(1)	X value and Y value	Set the upper left X coordinate and Y coordinate of the elements.
(2)	Width and Height	Set the width and height of the elements.



12.2 Active Alarm List

The Active Alarm List element displays the information of the current alarms.

Please refer to Table 12.2.1 for the Active Alarm List example.

Table 12.2.1	[Active Alarm	List] example
--------------	---------------	---------------

				Active	e Alarm List	t				
This example u	ises the al	arm	paramete	rs in Table	12.1 [Alarm	Setting	s] exampl	e.		
B B B E E	12 -	ዥ /	Arial		- 100%	- 🔷	🗊 📪 📬			
4 Detail	Properties									⊳
🖃 Address										
Address					None					
Detail										
Scan Time (second	s)				3					
Max Records Non-volatile Data S	*******				500 USB Disk					
Export CSV File	lorage				No					
Exit Screensaver w	hen alarm occu	rs			Yes					
Disply alarm screer	1				Manual					*
Alarm Moving S	Sign									
Enable					No					
Position Direction					Тор					
Points per time					Left 1					
Interval (ms)					100					
Background color					fcfcfc					
Translucent					255					
Oetail Properties No. Message Content	Category	Туре	Address	Trigger Condition			Monitor Address	Text Color	Alarm Screen	Mail
1* alarm 1 %d1度	Lategory 1	Bit	\$50.0	On			\$500	RGB(0, 0, 0)	2 - Screen_2	Mail
2* alarm 2 %d1 斤	1	Bit	\$50.1	On			\$501	RGB(0, 0, 0)	None	
3* alarm 3 %d1 克	1	Bit	\$50.2	On			\$502	RGB(0, 0, 0)	None	
4* alarm 4 %d1 尺 5* alarm 5 %d1 吋	1	Bit	\$50.3 ¢E0.4	On			\$503	RGB(0, 0, 0)	None	
6* alarm 6	5	Bit Word	\$50.4 \$100	On \$100 = \$200			\$504 None	RGB(0, 0, 0)	None 2 - Screen_2	
7* alarm 7	5	Word	\$110	\$110 < \$210			None	RGB(0, 0, 0)	None	
8* alarm 8	5	Word	{Link2}1@D100		{Link2}1@D100 <= {Lin	k2}1@D300	None	RGB(0, 0, 0)	None	
9* alarm 9	5	Word	\$120	0 <= \$120 <= 10			None	RGB(0, 0, 0)	None	
10* alarm 10	5	Word	{Link2}1@M16	{Link2}1@M16 = 10	JU		None	RGB(0, 0, 0)	None	
Act	ion control		Sorting	control Fil	tering control	Cou	nter C	ategory start	Category e	end
W:\$1###	Trigger alarm	n scree	en W:\$2 _#	## W	:\$3 _{# # #}	W:\$4 _{# #}	+ # W	.\$5 _{# # #}	W:\$6###	
	Ack ala	rm	1 ***			1			****	
Message	No		Trigg	er	Frequency		Recov	егу		
####	1	hh:m	m:ss mm/dd	/yy	#	hh:m	m:ss mm/dd/y	У	hh:mm:ss m	nm/
Bit trigger				Mord						
W:\$50.0	W:\$50.1	w	\$50.2		control W:\$1	00	W:\$2	00		
Alaim 1	Maim 2		maim 3	= Co	ndition 1	# # #] = []	####		
W:\$50.3 Avaim 4	W:\$50.4 Alaim 5			E Co	ndition 2 W:\$1	10 # # #	< W:\$2	10 ####		
Monitor address				- Co	ndition 3	Link2}1@ ####	D200 W:{L	.ink2}1@D100 <	W:{Link2}1 ####	@D300
####	W:\$501 ####	W:	\$502 # # # #	= Co	ndition 4	0	≦ ^{W:\$1}	20 # # # ≦	10	
W:\$503 ####	W:\$504 ####			= Co	ndition 5	.ink2}1@] # # #	^{M16} ≧ 1	00		





			Activ	/e Alarm L	List	t				
			owing steps rm List elem							
	No	Trigger	М	essage						
	1	hh:mm:ss r	mm/dd/yy #	###						
			Triagor Tim		Mo		ockor	l by defa		
Add Active Alarm List	Active	ne alarm me	will display t	he numbe	er of	f the alarm, t	the tir	ne the a	larm is tri	n, the iggere
	Active and th	Alarm List ne alarm me	will display t	he numbe	er of	f the alarm, t	the tir	ne the a	larm is tri	iggere
Alarm List	Active and th	Alarm List ne alarm me	Will display tessage.	-2 Details	er of	f the alarm, t	the tir	olumn order:	larm is tri	iggere
Alarm List	Active and th Active Alarm Preview	e Alarm List ne alarm me n List	Will display tessage.	2 Details	er of	f the alarm, t	rdinates	olumn order:	larm is tri	iggere
Alarm List	Active and th Active Alarm Preview	e Alarm List ne alarm me n List	Will display tessage.	-2 Details 30 50	er of	f the alarm, t	rdinates	olumn order:	larm is tri	
Alarm List	Active and th Active Alarm Preview	e Alarm List ne alarm me n List	will display t essage. Main Main V No.	-2 Details 30 50 120		f the alarm, t Details-2 Coor No Group	rdinates	olumn order:	larm is tri	
Alarm List	Active and th Active Alarm Preview	e Alarm List ne alarm me n List	Will display t essage. Main Main Vo. Group Trigger Time	-2 Details 30 50 120		f the alarm, t Details-2 Coor No Group Trigger	rdinates	olumn order:	larm is tri	
Alarm List	Active and th Active Alarm	e Alarm List ne alarm me n List	Will display t essage. Main Main Vo. Group Trigger Time	-2 Details 30 50 120		f the alarm, t Details-2 Coor No Group Trigger	rdinates	olumn order:	larm is tri	
Alarm List	Active and th Active Alarm Preview	Alarm List ne alarm me n List	Will display t essage. Main Main Vo. Group Trigger Time	-2 Details 30 50 120		f the alarm, t Details-2 Coor No Group Trigger	rdinates	olumn order:	larm is tri	
Alarm List	Active and th Active Alarm Preview State:	Alarm List ne alarm me n List	Will display t essage. Main Main V No. Group V Trigger Time V Alarm Messa	-2 Details 30 50 120		f the alarm, t Details-2 Coor No Group Trigger Message	rdinates	olumn order:	larm is tri	
Alarm List	Active and th Active Alarm Preview State: 0 Language: Language1 Element des	e Alarm List ne alarm me n List	Will display t essage. Main Main Vo. Group Trigger Time Alarm Messa	2 Details 30 50 120 250 th of columns: 40 gnment		f the alarm, t Details-2 Coor No Group Trigger Message els Left V Da	the tir	olumn order: lo. Larm Message rrigger Time	n/dd/yy •	
Alarm List	Active and th Active Alarm Preview State: 0 Language: Language1 Element des	Alarm List ne alarm me List	Main Main Main Main No. Group Trigger Time Alarm Messa The total wid	-2 Details -2 Details 30 50 120 250 th of columns: 40 gnment und	er of	f the alarm, t Details-2 Coor No Group Trigger Message els Left V Da	the tir	olumn order: lo. Larm Message rrigger Time	larm is tri	



			Active Alarn	n List
	the HMI. Whe current alarm	n the cor time and	nditions are met for	nt, please compile and download the element to Alarms 6 - 10, the Active Alarm List shows the er, and alarm message. No items are displayed on cleared.
		No	Trigger	Message
		0006	17:36:08 03/06/2017	alarm 6
	Alarm ON	0007	17:36:08 03/06/2017	alarm 7
	Alarmon	0008	17:36:08 03/06/2017	alarm 8
		0009	17:36:08 03/06/2017	alarm 9
Execution results		0010	17:36:08 03/06/2017	alarm 10
		No	Trigger	Message
	Alarm OFF			



The following figure shows the property setting screen when you double-click the Active Alarm List.

Active Alarm List							×
Preview	Main	Main-2	Details	Details-2	Coordinates		
No banaya bagan e 1 mara Munta a dinakaj	Style						
	Backg	round Color:		_ ▼			
		r Color:		•			
		ne Color:		▼			
State:	Row (Color:		•			
	Altern	ing Row Color		•			
Language:	Select	Row Color:		•			
	Show	Gridlines:	Yes	•			
Element description: Active Alarm List_001							
Active Alami List_001							
						OK	Cancel
						OK	Cancei

Figure 12.2.1 Properties of the [Active Alarm List]

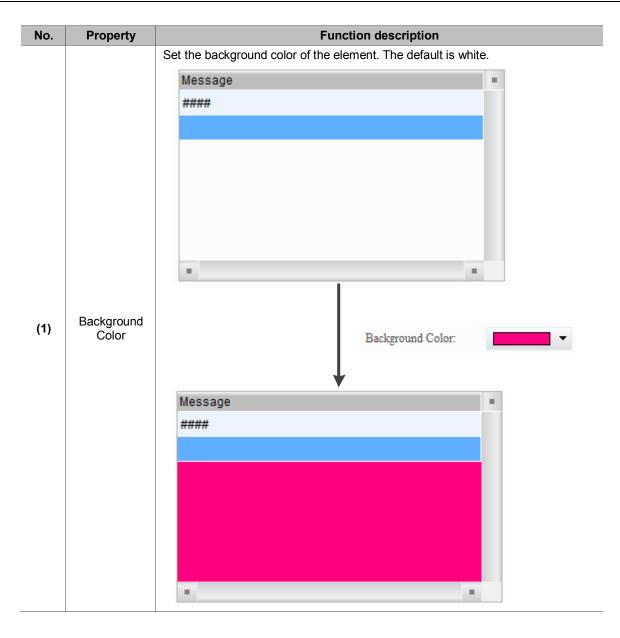
Table 12.2.2 Function page	for the [Active Alarm List]
----------------------------	-----------------------------

Active Alarm List				
Function page	Description			
Preview	Active Alarm List elements do not support multiple status values and multi-language data display.			
Main	Set the [Background Color], [Border Color], [Gridline Color], [Row Color], [Alternating Row Color], [Select Row Color], and [Show Gridlines] of the elements.			
Main-2	Set the [Transparent], [Animation], and [Anti-aliasing].			
Details	Set the [Filter control address], [Alarm group start addr.], and [Alarm group end addr.]. (Please refer to the Alarm History Table example.)			
Details-2	Set the displaying alarm columns, width, description, and the order of the columns. Set the [Title Text Alignment], [Title Background] color, [Title Text Color], and format / color of the date / time.			
Coordinates	Set the X and Y coordinates, width, and height of the elements.			

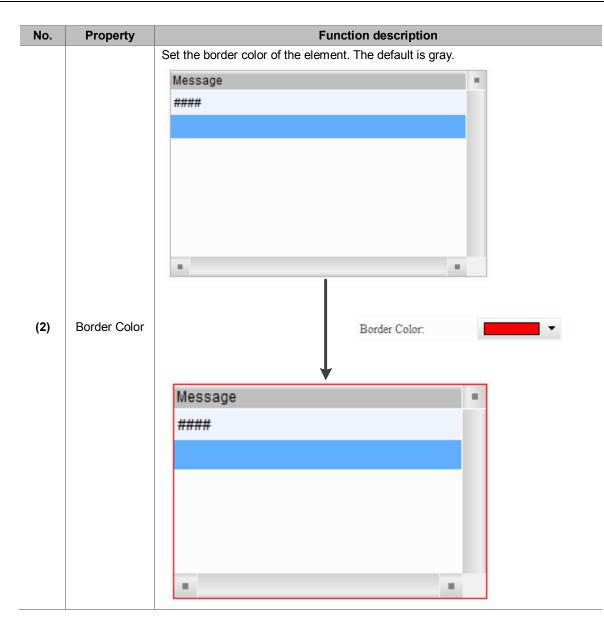
tive Alarm List		X
tive Alarm List Preview State: 0 Language: Language1 (6) Element description: Active Alarm List_001	Main Main-2 Details Details-2 Coordinates Style (1) (1) (1) (1) Background Color: (2) (2) (2) Gridline Color: (3) (3) (4) Alterning Row Color: (4) (4) (4) Select Row Color: (5) (5) Show Gridlines: Yes (7)	
		OK Cancel

Figure 12.2.2 [Main] property page for the Active Alarm List element

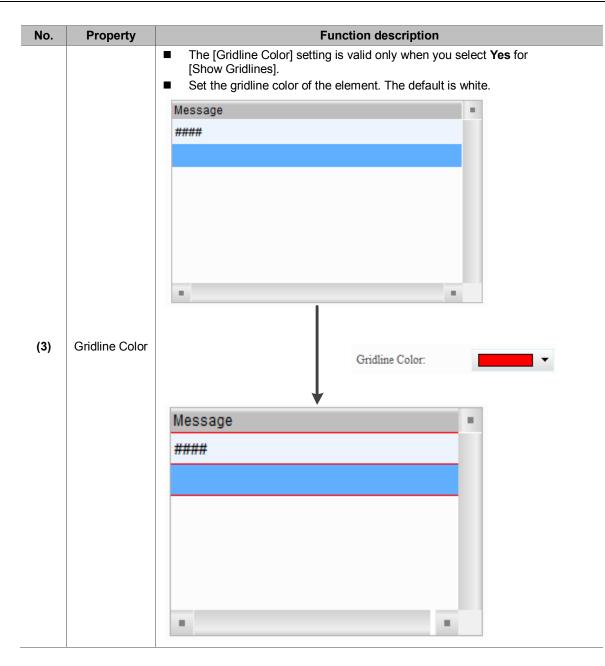




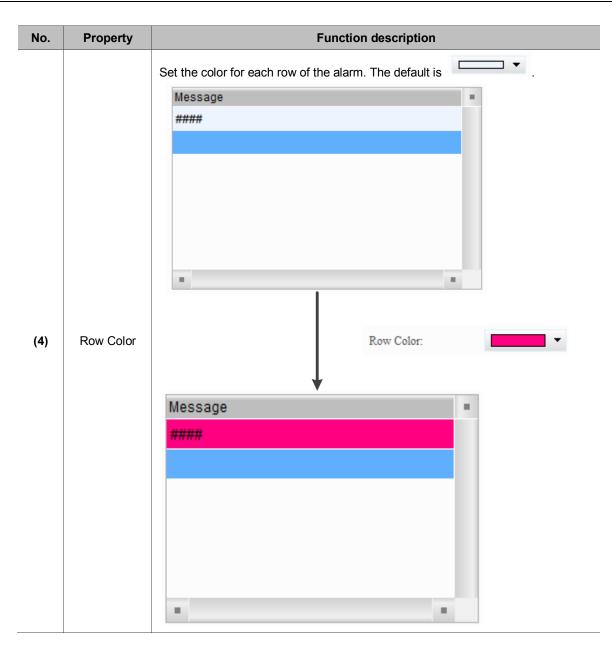








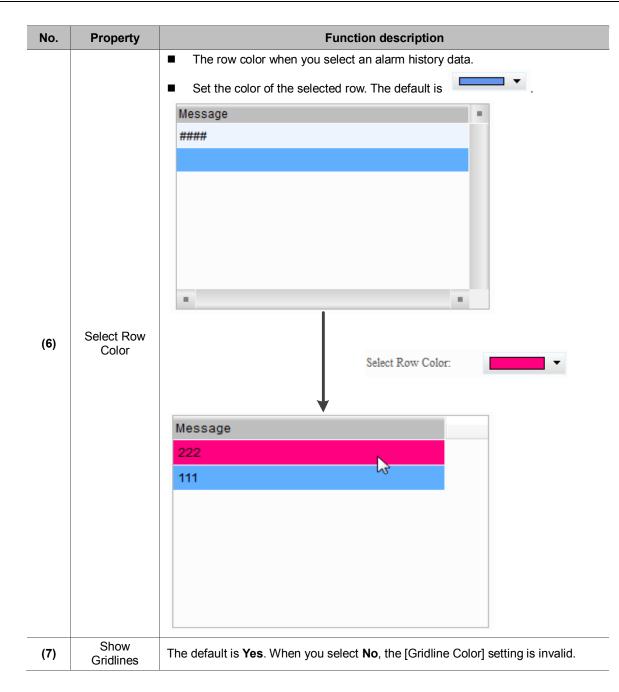














Main-2

Active Alarm List							x
Preview	Main	Main-2	Details	Details-2	Coordinates		
	Style				(1)		
	Trans	parent:	255				
	Anima	ation:	No	~	(2)		
·	Anti-s	iliasing:	Yes	-			
State:					(3)		
Ū (
Language:							
Language1 👻							
Element description:							
Active Alarm List_001							
						OK	Cancel

Figure 12.2.3 [Main-2] property page for the Active Alarm List element

No.	Property	Function description
(1)	Transparent	You can set the transparency value within the range of 50 to 255. The default is 255. The smaller the value, the higher the transparency of the element.
(2)	Animation	The [Animation] function is not available for this element.
(3)	Anti-aliasing	The [Anti-aliasing] function is not available for this element.



Active Alarm List	
Preview	Main Main-2 Details Details-2 Coordinates
(1)	No. Group Group G
	□ Group 50 → Group □ □ Trigger Time 120 → Trigger □
· · · · ·	Alarm Message 250
State:	(2) (3)
Language:	The total width of columns: 250 Pixels
Language1	The total width of columns: 250 Pixels Title Text Alignment Align Left Date Format: mm/dd/yy Title Background Time Format: HH:MM:SS Title Text Color Color (6)
	OK Cancel

Details-2

Figure 12.2.4 [Details-2] property page for the Active Alarm List element

No.	Property		Function description							
(1)	Column display	Check the o	heck the columns you want to display in the element.							
(2)	Column width	You can ad	just the width for e	ach co	lumn.					
(3)	Column title	You can de	fine the titles for ea	ach co	umn.					
(4)	Column order		After checking the columns you want to display, you can use the and wittons to adjust the column displaying order.							
(5)	Title	Text Alignment	Set the column ti Align Left Center	No 1 No 1	Message #### Message ####	r right. Trigger hh:mm:ss mm/dd/yy Trigger hh:mm:ss mm/dd/yy	*			
			Align Right	No 1	Message ####	Trigger hh:mm:ss mm/dd/yy	•			



No.	Property	Function description						
			Set the backgro	ound co	lor of the colum	in title.		
		Back-	Default	No 1	Message ####	Trigger hh:mm:ss mm/dd/yy		
		ground	After change	No 1	Message ####	Trigger hh:mm:ss mm/dd/yy	•	
(5)	Title		Set the text cold	or of the	e column title.			
		Text	Default	No 1	Message ####	Trigger hh:mm:ss mm/dd/yy	•	
		Color	After change	No 1	Message ####	Trigger hh:mm:ss mm/dd/yy		
	(6) Date and time	Date Format	Select the displ	Date I	Format:	from the following options. mm/dd/yy dd/mm/yy dd/mm/yy dd.mm.yy yy.mm.dd yy/mm/dd mm.dd mm/dd		
(6)			Select the displ		Format:	From the following options.		
			Set the displayi	ng colo	r of the date an	d time.		
		Color	Default	No 1	Message ####	Trigger hh:mm:ss mm/dd/yy		
			After change	No 1	Message ####	Trigger hh:mm:ss mm/dd/yy		



Active Alarm List							×
Preview	Main	Main-2	Details	Details-2	Coordin	ates	
Menor e	Coordi	nates					
		X:	150	* *	Y:	87	(1)
		Width:	496	* *	Height:	345	(2)
State:							
0 -							
Language:							
Language1 👻							
Element description: Active Alarm List_001							
							OK Cancel

Coordinates

Figure 12.2.5 [Coordinates] property page for the Active Alarm List element

No.	Property	Function description
(1)	X value and Y value	Set the upper left X coordinate and Y coordinate of the elements.
(2)	Width and Height	Set the width and height of the elements.



12.3 Alarm Frequency Table

The Alarm Frequency Table element records and displays the occurrence times of each alarm.

Please refer to Table 12.3.1 for the Alarm Frequency Table example.

Table 12.3.1 [Alarm Frequency Table] example

				Alarm	Freq	uency Ta	ble				
This example use		-		s in Tab	le 12	-		_	-		
	12 -	∃°ar Ar	ial		Ψ.	100%	· 🗳 (
	operties										⊳
Address Address						None					
Detail						NOILE					
Scan Time (seconds)						3					
Max Records						500					
Non-volatile Data Stora	age					USB Disk					
Export CSV File Exit Screensaver when	alarm occu	200				No Yes					
Disply alarm screen	ddiniocco	10				Manual					*
🖃 Alarm Moving Sign	D.										
Enable						No					
Position Direction						Top Left					
Points per time						1					
Interval (ms)						100					
Background color						fcfcfc					
Translucent						255					
4 Detail Properties											
No. Message Content	Category	Type A	ddress	Trigger Condition	on			Monitor Addr		Alarm Screen	Mail
1* alarm 1 %d1 度 2* alarm 2 %d1 斤	1		50.0	On On				\$500	RGB(0, 0, 0)	2 - Screen_2 None	
2* alarm 2 %d1 斤 3* alarm 3 %d1 克	1		50.1 50.2	On				\$501 \$502	RGB(0, 0, 0)	None	
4* alarm 4 %d1 尺	1		50.3	On				\$503	RGB(0, 0, 0)	None	
5* alarm 5 %d1 며 6* alarm 6	1		50.4 100	On \$100 = \$200				\$504 None	RGB(0, 0, 0)	None 2 - Screen_2	
7* alarm 7	5		110	\$110 < \$210				None	RGB(0, 0, 0)	None	
8* alarm 8	5		ink2}1@D100			2}1@D100 <= {Link	2}1@D300	None	RGB(0, 0, 0)	None	
9* alarm 9 10* alarm 10	5		120 ink2}1@M16	0 <= \$120 <= {Link2}1@M16				None	RGB(0, 0, 0)	None None	
Action	control		Sorting	control	Filteri	ing control	Соц	Inter	Category start	Category	end
W:\$1	gger alarn	n screen	W:\$2		W:\$3		W: \$ 4	<u></u>	W:\$5	W:\$6	
	Ack ala	rm	##;	* #	1 **	***	###	* #		####	
Message	No		Trigge	er		Frequency		R	ecovery		
#### 1		hh:mm	:ss mm/dd/	уу	#		hh:m	m:ss mm/	/dd/yy	hh:mm:ss i	mm/
Bit trigger				- Wo	rd con						
Pilarm 1	\$50.1 Maim 2	W:\$	50.2 Naim 3	-	Condi		00 # # #		W:\$200, ####		
W:\$50.3 Maim 4	\$50.4 Maim 5			-	Condi		###	<	W:\$210 ####		
W:\$500 W:	\$501	W-S4	502		Condi	tion 3 W:{	Link2}1@ ####	^{D200} ≦	W:{Link2}1@D100≤	W:{Link2} ####	1@D300
	\$501 # # # # \$504		502 # # #	-	Condi		0	i i	^{W:\$120} #####	10	
W:\$503 ####	\$504 # # # #			-	Condi	tion 5 U:{I	.ink2}1@ # # #	^{M16} ≧	100		



		Alarm	Frequency	Table					
		the following steps							
	1. Create Ala	arm Frequency Tabl	e element.						
	No Trigger	Message		Fred	Frequency				
	1 hh:mm:ss	mm/dd/yy ####		#					
Add Alarm Frequency Table element	default. Th the alarm	b.] and [Trigger Time nen, the Alarm Frequis triggered, alarm r splay for counting ze rable	uency Table nessage, ar ero] is also (e will displand will also	ay the numb o record the by default. Coordinates	per of the alarm, occurrence tim	the time		
	No. Manager Compared D	Nagaw et al. Annu pi monaday			Colt	umn order:			
		V No.		No	No. Ala	rm Message			
		Group		Group	Ala	rm Counts ger Time			
		✓ Trigger Time		Trigger Message					
		Alarm Mess	-	 Message Frequency 					
	State:	Alarm Count		- I requency					
	0	Display for o	ounting zero						
	Language:								
	Language1	- The total wi	dth of columns: 450	Pixels					
	Element descriptio			1: T - O	D	mm/dd/yy 🗸			
	Element descriptio	Table 001	-	lign Left 👻	Date Format:				
				•	Time Format:	HH:MM:SS -			
		Title Text Co	lor	•	Color	•			
	element to Table show counts. WI 0 in the Fr	ing the Alarm Freque the HMI. When the ws the current alarm hen [Display for cou equency column wh larm is cleared, the ared.	conditions time and d nting zero] en Alarms	are met fo ate, alarm is checkeo 1 - 5 are n	or Alarms 6 number, al d, the Alarm ot triggered	- 10, the Alarm F arm message, a Frequency Tab	Frequency and alarm le displays		
		No Message		Frequency	Trigger				
_		000 Alarm 1 30 degree(s)		1	16:19:09 09/20/20	17			
Execution	Alarm ON	000 Alarm 2 10 kilogram(s)		1	16:19:12 09/20/20	17			
results	7	000 Alarm 3 %d1 gram(s)		0	00:00:00 00/00/0000				
		000 Alarm 4 %d1 meter(s)		0	00:00:00 00/00/00				
		000 Alarm 5 %d1 inch(es)		0	00:00:00 00/00/00	00			
		No Message		Frequency	Trigger				
		000 Alarm 1 30 degree(s)		1	16:19:09 09/20/20	17			
		000 Alarm 2 10 kilogram(s)		1	16:19:12 09/20/20	17			
	Alarm OFF	000 Alarm 3 %d1 gram(s)		0	00:00:00 00/00/00	00			
		000 Alarm 4 %d1 meter(s)		0	00:00:00 00/00/00	00			
		000 Alarm 5 %d1 inch(es)		0	00:00:00 00/00/0000				

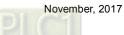


The following figure shows the property setting screen when you double-click the Alarm Frequency Table.

Alarm Frequency Table						— ×	
Preview	Main	Main-2	Details	Details-2	Coordinates		
ing in the second secon	Style						
	Backg	round Color:		_ ▼			
	Borde	r Color:		•			
	Gridlin	ne Color:		_ ▼			
State:	Row O	Color:		•			
Language:	Altern	ing Row Color		•			
Language1 ~	Select	Row Color:		•			
F 4 4	Show	Gridlines:	Yes	-			
Element description: Alarm Frequency Table_001							
						OK Cancel	

Figure 12.3.1 Properties of the [Alarm Frequency Table]

	Alarm Frequency Table							
Function page	Description							
Preview	Alarm Frequency Table elements do not support multiple status values and multi-language data display.							
Main	Set the [Background Color], [Border Color], [Gridline Color], [Row Color], [Alternating Row Color], [Select Row Color], and [Show Gridlines] of the elements.							
Main-2	Set the [Transparent], [Animation], and [Anti-aliasing].							
Details	Set the [Filter control address], [Alarm group start addr.], and [Alarm group end addr.]. (Please refer to the Alarm History Table example.)							
Details-2	Set the displaying alarm columns, width, description, and the order of the columns. Set the [Title Text Alignment], [Title Background] color, [Title Text Color], and format / color of the date / time.							
Coordinates	Set the X and Y coordinates, width, and height of the elements.							

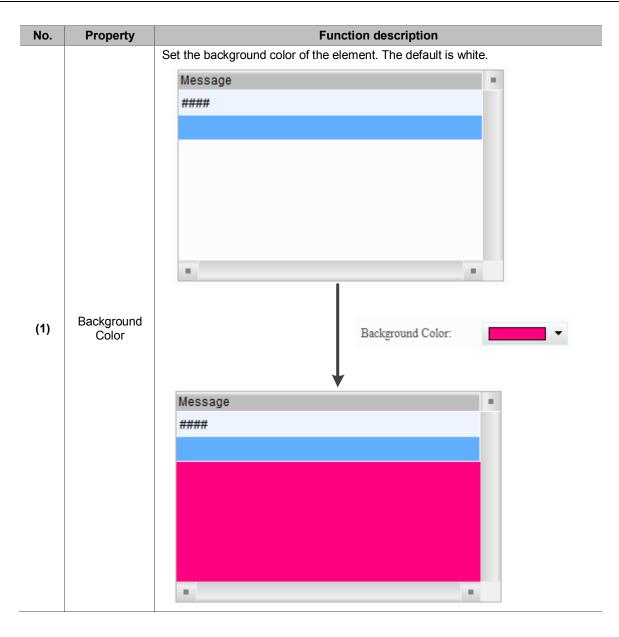


Alarm Frequency Table		X
Preview	Main Main-2 Details Details-2 Coordinates	
State: 0 • Language: Language1 (6) Element description: Alarm Frequency Table_001	Style Background Color: Border Color: Gridline Color: Gridline Color: (3) Row Color: (4) Alterning Row Color: Select Row Color: (5) Show Gridlines: Yes	
		OK. Cancel

Main

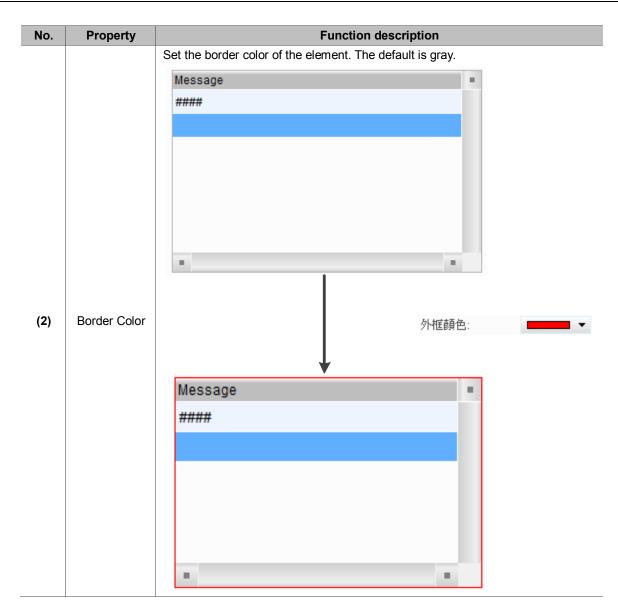
Figure 12.3.2 [Main] property page for the Alarm Frequency Table element



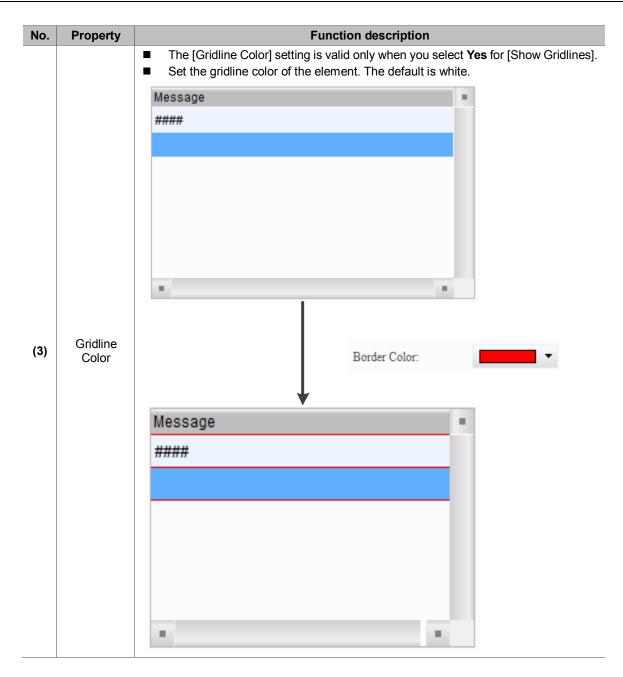




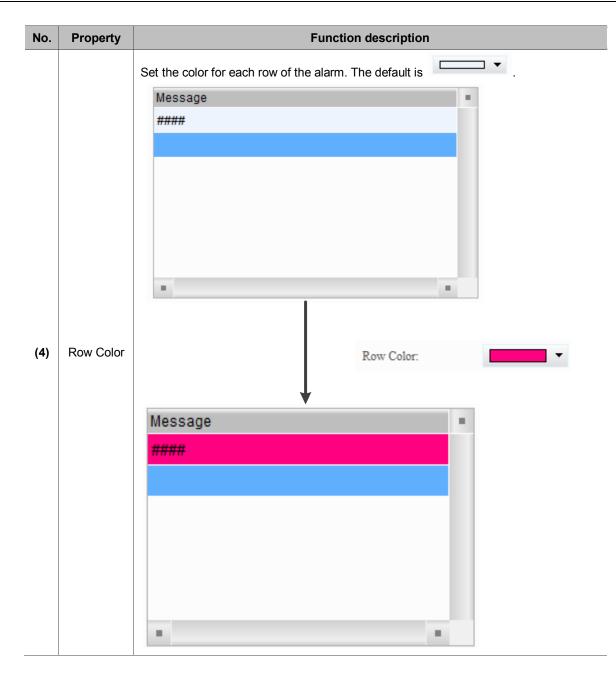
155







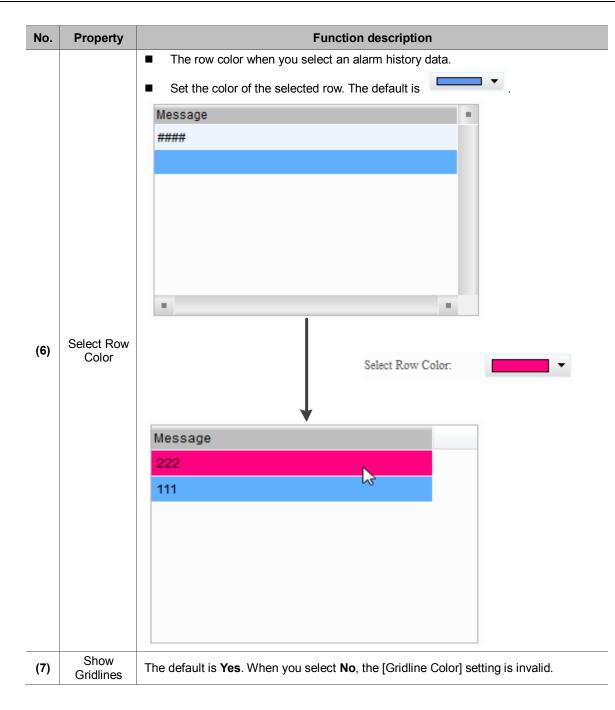














Main-2

Alarm Frequency Table							×
Preview	Main	Main-2	Details	Details-2	Coordinates		
Record Paganes	Style				(1)		
	Transı	parent:	255				
	Anims	tion:	No	-	(2)		
*	Anti-a	liasing:	Yes	-			
State:					(3)		
0							
Language:							
Language1 -							
-							
Element description: Alarm Frequency Table_001							
						OK (Cancel

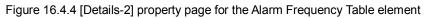
Figure 12.3.3 [Main-2] property page for the Alarm Frequency Table element

No.	Property	Function description
(1)	Transparent	You can set the transparency value within the range of 50 to 255. The default is 255. The smaller the value, the higher the transparency of the element.
(2)	Animation	The [Animation] function is not available for this element.
(3)	Anti-aliasing	The [Anti-aliasing] function is not available for this element.



Alarm Frequency Table				×
Preview	Main Main-2	Details Details-2	Coordinates	(4)
(1)	🔲 No.	30 🔶 No	Column order:	\sim
	🔲 Group	50 🌲 Group	Alarm Counts	
	🔲 Trigger Time	120 Trigger		
× ×	🛛 Alarm Message	250 🚔 Message		
State:	Alarm Counts	50 Frequency	·~'	
0 -	Display for counti		(3)	
Language: (5)	~	(2)		
Language1 💌	The total width of	f columns: 300 Pixels		
Element description:	Title Text Alignme	ent Align Left -	Date Format:	√dd/yy ▼
Alarm Frequency Table_001	Title Background		Time Format:	I:MM:SS 🔻
	Title Text Color	•	Color	-
	<u> </u>	·?		
	(6)	l	(7)	
				OK Cancel

Details-2



No.	Property	Function description
(1)	Column display	Check the columns you want to display in the element.
(2)	Column width	You can adjust the width for each column.
(3)	Column title	You can define the titles for each column.
(4)	Column order	After checking the columns you want to display, you can use the and buttons to adjust the column displaying order.



No.	Property			Funct	ion descri	ption		
			otherwise, the ala				quency Table when no yed when the occurrer	
(5)	Display for	Check	No Message 000 Alarm 1 30 degree(s) 000 Alarm 2 10 kilogram(s) 000 Alarm 3 %d1 gram(s) 000 Alarm 4 %d1 meter(s)			16:19:12 0 00:00:00 0 00:00:00 0	09/20/2017 09/20/2017 00/00/0000 00/00/0000	
	counting zero	Uncheck	No Message 000 Alarm 5 %d1 inch(es) No Message 000 Alarm 1 30 degree(s) 000 Alarm 2 10 kilogram(s) 000 Alarm 7 000 Alarm 8 000 Alarm 9 001 Alarm 10	0 Frequency 1 1 1 1 1 1 1 1 1 1 1 1	Trigger 16:25:23 (16:25:20 (16:25:20 (16:25:20 (16:25:20 (16:25:20 (16:25:20 (16:25:20 (00/00/0000 09/20/2017 09/20/2017 09/20/2017 09/20/2017 09/20/2017 09/20/2017 09/20/2017		
			Set the column t	No 1	align left, ce Message ####	enter, or	right. Trigger hh:mm:ss mm/dd/yy	
		Text Alignment	Center	No 1	Messa ####	ige	Trigger hh:mm:ss mm/dd/yy	•
			Align Right	No 1	Me ####	essage	Trigger hh:mm:ss mm/dd/yy	
			Set the backgro	und col	or of the co	olumn ti	tle.	
(6)	Title	Back- ground	Default	No 1	Message ####		Trigger hh:mm:ss mm/dd/yy	
					Message ####		Trigger hh:mm:ss mm/dd/yy	
			Set the text colo	r of the	e column titl	e.		
		Text Color	Default	No 1	Message ####		Trigger hh:mm:ss mm/dd/yy	
			After change	No 1	Message ####		Trigger hh:mm:ss mm/dd/yy	



No.	Property	Function description							
		Date Format	Select the disp	Date Format: Date Format: Time Format: Color	e date from the following options.				
(7)	Date and time	Time Format	Select the disp	olay format for the Time Format: Color	e time from the following options.				
		Color	Set the display	ying color of the c	late and time.				
			Default	No Messag 1	je Trigger hh:mm:ss mm/dd/yy				
		Color	COIDI	COIOI	000	After change	No Messag 1 ####	e Trigger hh:mm:ss mm/dd/yy	



Coordinates

Alarm Frequency Table							×
Preview	Main	Main-2	Details	Details-2	Coordin	nates	
Nonoga (Yangano) r may r	Coordi	nates					
		X:	124	×	Y:	41	(1)
		Width:	548	* *	Height:	387	(2)
State:							
0							
Language:							
Language1 -							
Element description:							
Alarm Frequency Table_001							
							OK Cancel
							Califor

Figure 12.3.5 [Coordinates] property page for the Alarm Frequency Table element

No.	Property	Function description
(1)	X value and Y value	Set the upper left X coordinate and Y coordinate of the elements.
(2)	Width and Height	Set the width and height of the elements.



12.4 Alarm Moving Sign

The Alarm Moving Sign element records the alarm number, the time and date the alarm is triggered. You can also define the interval and moving distance of the Alarm Moving Sign.

The settings of this element are the same as the Alarm Moving Sign parameter settings in [Options] > [Alarm Settings]. You can use this Alarm Moving Sign element and the Alarm Moving Sign in the [Alarm Settings] at the same time, but the main difference is the Alarm Moving Sign generates a moving sign message when an alarm is triggered regardless of the operating page you are on. In addition, both settings are independent and do not cross reference.

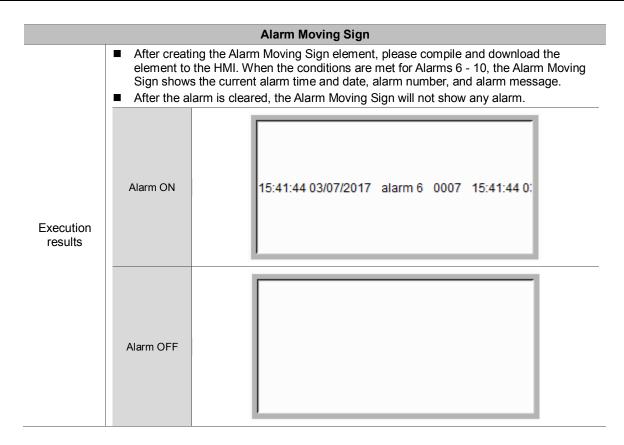
Please refer to Table 12.4.1 for the Alarm Moving Sign example.

TIL 10 11			<u> </u>	
Table 12.4.1	Alarm	Moving	Signi	example

					Alarm Mo	oving Sign					
This	example use	es the a	larm	paramete	rs in Table 12	.1 [Alarm Settin	gs] exampl	e.			
		12 -	ት /	Arial	-	100% -	i 🗐 🚑 🕞				
۷ /	Detail Pr	roperties	1							⊳	
E A	ddress										
	ldress					None					
E D						110100					
	an Time (seconds)					3					
	ax Records					500					
	on-volatile Data Stor					USB Disk					
	port CSV File	age				No					
	dit Screensaver when	.1				Yes					
		i alarm occu	12								
	isply alarm screen					Manual				*	
	larm Moving Sig	n									
	nable					No					
	sition					Тор					
Di	irection					Left					
Po	oints per time					1					
In	terval (ms)					100					
B	ackground color					fcfcfc					
Ti	anslucent					255					
4	Detail Properties										
No.	Message Content	Category	Туре	Address	Trigger Condition		Monitor Address	Text Color	Alarm Screen	Mail	
1*	alarm 1 %d1 度	1	Bit	\$50.0	On		\$500	RGB(0, 0, 0)	2 - Screen_2		
2*	alarm 2 %d1 斤	1	Bit	\$50.1	On		\$501	RGB(0, 0, 0)	None		
3*	alarm 3 %d1 克	1	Bit	\$50.2	On		\$502	RGB(0, 0, 0)	None		
4*	alarm 4 %d1 尺	1	Bit	\$50.3	On		\$503	RGB(0, 0, 0)	None		
5*	alarm 5 %d1 吋	1	Bit	\$50.4	On		\$504	RGB(0, 0, 0)	None		
6*	alarm 6	5	Word	\$100	\$100 = \$200		None	RGB(0, 0, 0)	2 - Screen_2		
7*	alarm 7	5	Word	\$110	\$110 < \$210		None	RGB(0, 0, 0)	None		
8*	alarm 8	5	Word	{Link2}1@D100		2}1@D100 <= {Link2}1@D300	None	RGB(0, 0, 0)	None		
9*	alarm 9	5	Word	\$120 (Linko)1@M16	0 <= \$120 <= 10		None	RGB(0, 0, 0)	None		
10*	alarm 10	5	Word	{Link2}1@M16	{Link2}1@M16 = 100		None	RGB(0, 0, 0)	None		



		Alarm Moving Sig	n	
Ad	ction control Sorting	control Filtering control	Counter Category start	Category end
W:\$1 ####	Trigger alarm screen W:\$2 Ack alarm	## W:\$3 ####	W:\$4 ####	W:\$6 ####
Message ####	No Trigge 1 hh:mm:ss mm/dd/		Recovery hh:mm:ss mm/dd/yy	hh:mm:ss mm/
Bit trigger		Word control		
W:\$50.0 Area m 1 W:\$50.3 Area m 4	W:\$50.1 Miaim 2 W:\$50.4 Miaim 5	Condition 2 W:\$1	### = #### 110 #### = W:\$210 #####	
Monitor address W:\$500 #### W:\$503 ####	W:\$501 #### W:\$502 #### W:\$504 ####	Condition 4	$ \begin{array}{c} \underset{m \neq \# \# \#}{\text{Link2}}1@D200 \leq & \underset{m \neq \# \# \# \#}{\text{W:}\{\text{Link2}\}1@D100} \\ 0 & \leq & \underset{m \neq \# \# \# \# \# \#}{\text{W:}\{120} \\ \vdots & \vdots & \vdots \\ \vdots & \vdots & \vdots \\ \vdots & \vdots & \vdots \\ \vdots & \vdots &$	≦ W:{Link2}1@D300 #####
	display the number of	g Sign element. 001 hh:mm:ss n], [Date Format], and [,	nm/dd/yy #### Alarm No.] Then, the Alarm and date the alarm is triggere	Moving Sign will ed, and alarm
Add Alarm Moving Sign element		Iain Main-2 Details O Style	Coordinates	





The following figure shows the property setting screen when you double-click the Alarm Moving Sign.

Alarm Moving Sign				X	3
Preview	Main Main-2	Details Coordin	ates		
	Style		Detail		
-	Style:	Sunken 🔻	Direction:	Left 👻	
	Border Color:	•	Interval(ms):	100 🔻	
	Background Color:	•	Points per time:	1	
State:			Status Display		
			Time Format	hh:mm:ss 🔻	
Language:			Date Format	mm/dd/yy 👻	
			Color	•	
Element description: Alarm Moving Sign_001			Others		
			Alarm No.		
			Alarm Group		
				OK Cancel	

Figure 12.4.1 Properties of the [Alarm Moving Sign]

	Alarm Moving Sign						
Function Page	Description						
Preview	Alarm Frequency Table elements do not support multiple status values and multi-language data display.						
Main	Set the element's style, border color, background color, display direction, interval time (ms), moving points per time, time and date formats, display color, alarm number, and alarm group.						
Main-2	Set the [Transparent], [Animation], and [Anti-aliasing].						
Details	Set the [Filter control address], [Alarm group start addr.], and [Alarm group end addr.]. (Please refer to the Alarm History Table example.)						
Coordinates	Set the X and Y coordinates, width, and height of the elements.						



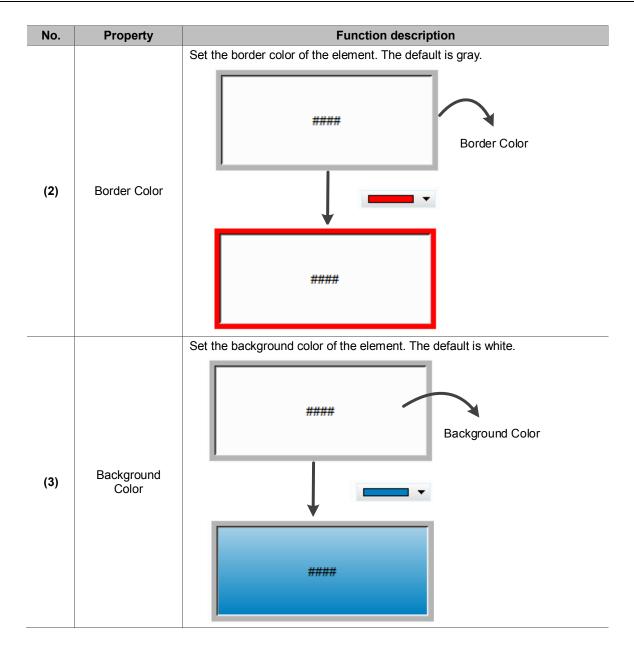
Alarm Moving Sign					×
Preview	Main Main-2 Style	Details Coordin		4)	
- (1)	Style:	Sunken 🔻	Direction:	Left	(5)
(2)	Border Color: Background Color:	· · ·	Interval(ms): Points per time:	100	
State:	(3)	(7)	Status Display Time Format	hh:mm:ss	(6)
Language: Language1 -		(8)	Date Format	mm/dd/yy	▼
Element description: Alarm Moving Sign_001			Others		(9)
		(10)	Alarm No.		
			(11)	
				OK	Cancel

Main

Figure 12.4.2 [Main] property page for the Alarm Moving Sign element

No.	Property	Function description						
		There are four element styles to choose from: Standard, Raised, Sunken, and Transparent. You can change the appearance of the element with this setting.						
		Standard	Raised	Sunken	Transparent			
(1)	Style	####	####	####	#####			







No.	Property	Function description					
		There are four display directions to choose from: Left, Right, Up, and Down. Direction: Left Interval(ms): Right Up Down Points per time: 1					
		Left 0006 16:12:5					
(4)	Direction	Right 17 alarm 10					
		Up 006 17:49:28 03/08/2017 alarm 6 007 17:49:28 03/08/2017 alarm 7 008 17:49:28 03/08/2017 alarm 8					
		008 17:50:06 03/08/2017 alarm 8 009 17:50:06 03/08/2017 alarm 9 010 17:50:06 03/08/2017 alarm 10 V Down					



No.	Property	Function description						
		The [Interval (ms)] defines the interval time (unit: ms) between two message movements of the Alarm Moving Sign. And you can set the moving distance in [Points per time].						
	(5) Interval (ms)	Interval(ms): 100 -						
(5)		Points per time: 100 200 300						
		Status Display 400 500						
		Time Format 1000 1500 2000						
		Date Format 2500 3000						
(6)	Points per time	The larger the moving points, the greater the distance the text moves each time. The setting range is 1 - 50 pixels.						
		Two time formats are supported.						
		Status Display						
(7)	(7) Time Format	Time Format						
		Date Format						
		Seven date formats are supported.						
		Status Display						
		Time Format						
(8)	Date Format	✓ Date Format mm/dd/yy mm/dd/yy						
		Color dd/mm/yy dd.mm.yy						
		Others yy.mm.dd yy/mm/dd mm.dd						
		Alarm No. mm/dd						
		You can change the display color of the time and date with the [Color] option.						
		The default is						
(9)	Color	001 hh:mm:ss mm/dd/yy ####						



No.	Property	Function description					
		If you check [Alarm No.], the element shows the alarm number when an alarm is triggered.					
(10)	Alarm No.	0006 16:48:09 03/07/2017 alarm 6					
		If you check [Alarm Group], the element shows the alarm group when an alarm is triggered.					
(11)	Alarm Group	0006 G005 16:38:54 09/20/2017 Alarm 6 000					



Main-2

Alarm Moving Sign						×
Preview	Main	Main-2	Details	Coordinates		
	Style				(1)	
	Trans	parent:	þ55			
	Anima	ation:	No	~	(2)	
	Anti-s	liasing:	Yes	-		
State:					(3)	
0						
Language:						
Language1 💌						
Element description:						
Alarm Moving Sign_001						
						OK Cancel

Figure 12.4.3 [Main-2] property page for the Alarm Moving Sign element

No.	Property	Function description
(1)	Transparent	You can set the transparency value within the range of 50 to 255. The default is 255. The smaller the value, the higher the transparency of the element.
(2)	Animation	The [Animation] function is not available for this element.
(3)	Anti-aliasing	The [Anti-aliasing] function is not available for this element.



Alarm Moving Sign							×
Preview	Main	Main-2	Details	Coordinates			
	Coordin	ates					
_		X:	59	×	Y:	60	(1)
		Width:	768	* *	Height:	374	(2)
State:							
0 ~							
Language1							
Element description: Alarm Moving Sign_001							
							OK Cancel

Coordinates

Figure 12.4.4 [Coordinates] property page for the Alarm Moving Sign element

No.	Property	Function description
(1)	X value and Y value	Set the upper left X coordinate and Y coordinate of the elements.
(2)	Width and Height	Set the width and height of the elements.



13. Keypad

Keypad(1)		×
Preview	Main Main-2 Text Picture	
	Style (1)	
1	Transparent: 255	
	Anti-aliasing: Yes (2)	
State:		
0 -		
Language:		
Element description:		
Keypad(1)_001		
	ок	Cancel

The keypad provides an animation function that enlarges the key you are pressing.

Figure 13.1 [Main-2] property page for the Keypad (1) element



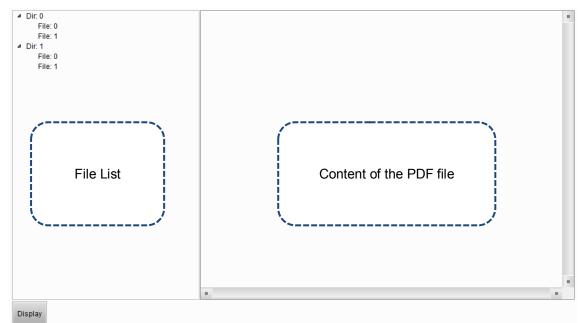
No.	Property	Function description						
(1)	Transparent	You can set the transparency value within the range of 50 to 255. The default is 255. The smaller the value, the higher the transparency of the element.						
(2)	Animation	 The [Animation After ungroupir function per bu this setting will 	ng the keypad e ttton. When you enlarge when y	elements, you activate the you press it.	i can activate	nction, the keys	with	
		Yes	1	2	3	CLR		
			4	5	6	DEL		
			7	8	9	Enter		
			+/-	0				
		No	1	2	3	CLR		
			4	5	6	DEL		
			7	8	9	Enter		
			+/-	0		Liner		



14. **PDF View**

The PDF View function allows you to read PDF files on the HMI by saving the PDF files in an external storage device and inserting it to the HMI. With this feature, you can view the operation steps without a PC or printouts, which can increase convenience and efficiency.

The PDF View is divided into two sections: the file list is on the left and the content of the PDF file is displayed on the right.



PDF files are displayed on the HMI from the external storage device, so if the USB Disk or SD Card read and write speed is too slow or the PDF file size is too big, the displaying speed of the PDF file will be affected.

Please refer to Table 14.1 for the PDF View example.



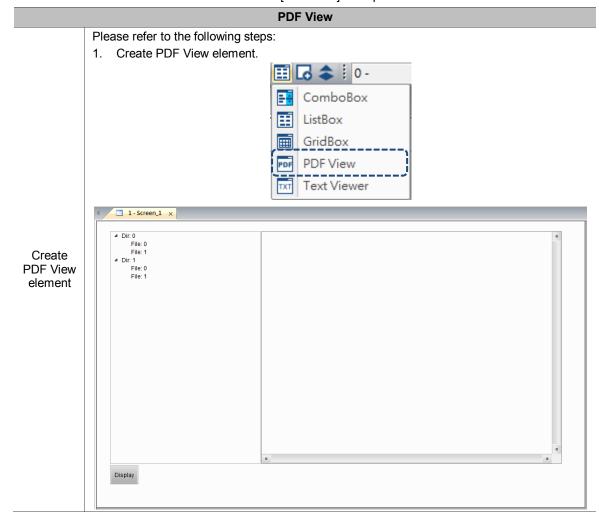


Table 14.1 [PDF View] example

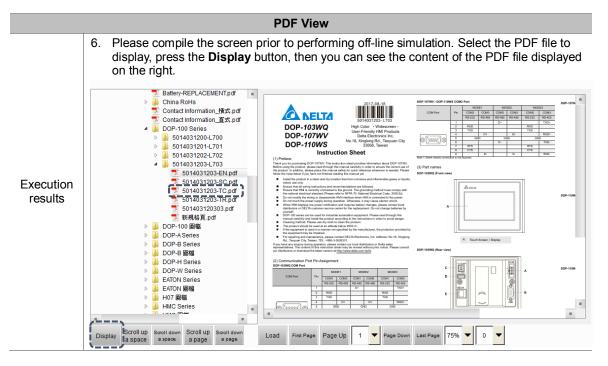


				PDF View			
	2. Click [PDF View], then right click and select [UnGroup].						
		6	6	Cu <u>t</u>	Ctrl+X		
		(b	Copy(<u>C</u>)	Ctrl+C		
			D.	<u>P</u> aste	Ctrl+V		
				Duplicate			
				Lock Element			
				Goto Screen			
				Edit Image			
				Cut Image			
				Copy Image			
				Paste Image			
		1	١,	Bring to <u>F</u> ront			
				Send to Bottom			
				Bring Fo <u>r</u> ward			
		-		Send Bac <u>k</u> ward			
		3	Group				
Set File List		2	t,	<u>U</u> nGroup			
				Select overlapped ele	ment 🕨		
	3.	Click the File List on the follows:	e le		Button] page, and the setting is as		
		Preview	M	ain Main-2 Function E	Button Coordinates		
		2 Dr 0 7 Mr 0 2 Dr 1 2 Dr 1 7 Mr 0 7 Mr 1		Function Button			
				Function description	Default Font		
				✓ Display	Display		
				Display Element	PDF View_002 ~		
		State:					
		0 🔻		🗹 Scroll up a space	Scroll up a space		
		Language:		Scroll down a space	Scroll down a space		
		Language1 v		🔽 Scroll up a page	Scroll up a page		
				📝 Scroll down a page	Scroll down a page		
		Element description:			Set as default description		
		PDF View_001					



						PD	F Viev	N					
		Click the display content on the right to go to the [Function Button] page, and the setting is as follows:						etting					
	Pre	view			Main	Ма	ain-2	Function Butto	n Co	ordinates			
				1	PD	F View I	Function	Key					
					I	unction	descripti	on		Default For	ıt		
						/ Load				Load			
					Į.	/ First I	Page			First Page			
	Stat	e:			8	/ Total I	Page						_
	0			-	8	🖊 Page U	Jp			Page Up			
	Lan	guage:				/ Page I				Page Down			
		guage1		-		Last P	age			Last Page			
						7 Ratio							
		nent descri	•			Rotati	ons						_
Set display content	FL	OF View_00	02							Set as	default de	scription	
	5. W	hen the	e settir	ng is co	omple	te, the	PDF	View screen	is as fo	ollows:			
	 Dir. 0 File Dir. 1 File File 	e: 1 e: 0											
	Display			Scroll up s	roll down a page	Load	First Page	Page Up Total Page	Page Down	Last Page Ratio	Rotati ons	•	





The following will explain the properties of the File List on the left and the display content on the right.



The following figure shows the property setting screen when you double-click the File List on the left.

PDF View	_		
Preview	Main Main-2 Function Button		
* (0:0) File 0 File 1 * (0:1) File 1 File 1 File 1	Style	Text	
	Border Color:	Font:	Arial 👻
	Tree View Background:	Size:	12 •
		Color:	
State:			
0 ~			
Language:			
Language1 -			
Element description:			
PDF View_001			
			OK Cancel

Figure 14.1 Properties of the [PDF View] File List

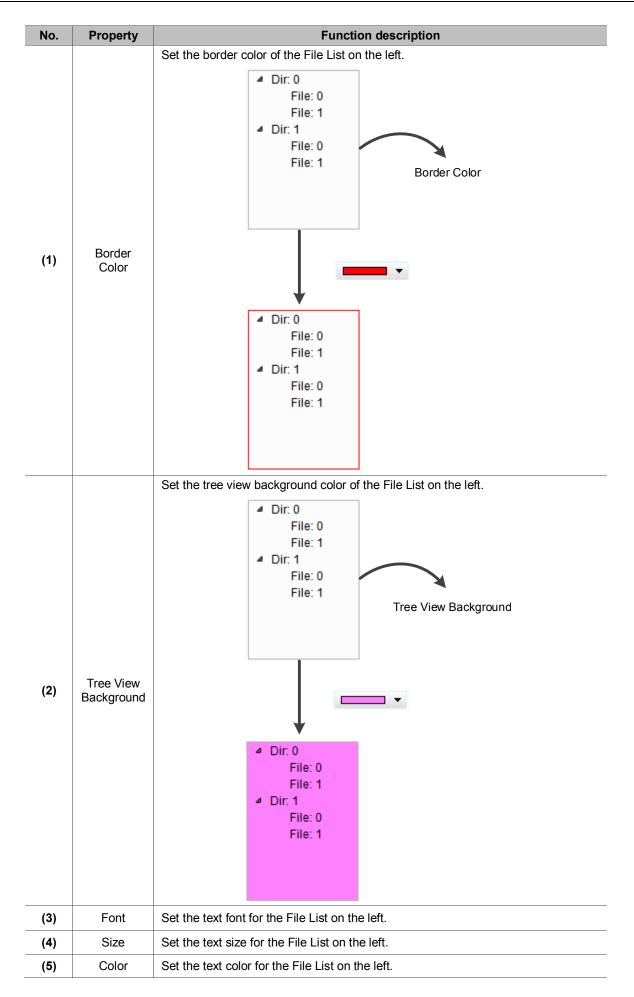
PDF View (File List on the left)				
Function Page	Description			
Main	Set the [Border Color] and [Tree View Background]. You can also set the font, size, and color of the texts.			
Main-2	Set the [Transparent], [Animation], and [Anti-aliasing].			
Function Button	Check [Scroll up a space], [Scroll down a space], [Scroll up a page], and [Scroll down a page], then click Set as default description . You can also set the width and height of the buttons.			



Main			
PDF View			×
Preview (1) (2) State: 0 Language: Language1 Element description: PDF View_001	Main Main-2 Function Button Style Border Color: Tree View Background: (4)	Text Font: Size: Color: (5)	(3) Arial • 12 •
			OK Cancel

Figure 14.2 [Main] property page for the PDF View File List element







PDF View		-		×
Preview ************************************	Main Main-2 Style Transparent: Animation: Anti-aliasing:	Function Button	(1) (2) (3)	
				OK Cancel

Figure 14.3 [Main-2] property page for the PDF View File List element

No.	Property	Function description
(1)	Transparent	You can set the transparency value within the range of 50 to 255. The default is 255. The smaller the value, the higher the transparency of the element.
(2)	Animation	The [Animation] function is available for this element. When you activate the [Animation] function, there is a sliding effect when the File List expands or retracts.
(3)	Anti-aliasing	The [Anti-aliasing] function is not available for this element.



PDF View	
Preview	Main Main-2 Function Button
4 (2115) 1993 - 1993 - 1994 - 1995 - 1994 - 1994 - 1994 -	Function Button (3)
(1)	Function description Default Font
	Display
State:	Display Element PDF View_002
0 ~	Scroll up a space
Language:	Scroll down a space
Language1 v	Scroll up a page
Element description:	Set as default description (2)
PDF View_001	
(4)	Button Default Width 60
	Button Default Height 40
	OK Cancel

Function Button

Figure 14.4 [Function Button] property page for the PDF View File List element

No.	Property	Function description
		These are function buttons for the File List. [Display] is checked by default and cannot be unchecked.
(1)	Function Button	Other function buttons include [Scroll up a space], [Scroll down a space], [Scroll up a page], and [Scroll down a page], which are used to scroll the File List and determine the scrolling range.
(2)	Set as default description	Click this button to insert the default texts to the spaces above.
(3)	Default text	Click Set as default description to insert the default texts to the spaces. You can also enter user-defined texts.
(4)	Button Default Width and Height	You can adjust the width and height of the function buttons.



The following figure shows the property setting screen when you double-click the display content on the right.

PDF View		X
PDF View Preview Preview State: Units Element description: PDF View_002	Main Main-2 Function Button Memory Read Address: None Read Offset Address: None	Detail Save in: USB Disk • String Length: 4 •
		OK

Figure 14.5 Properties of the [PDF View] display content

Table 14.3 Function page for the	[PDF View] display content element
----------------------------------	------------------------------------

PDF View (display content on the right)				
Function Page	Description			
Main	Set the [Read Address] and [Read Offset Address]. You can also set the storage type and string length.			
Main-2	Set the [Transparent], [Animation], and [Anti-aliasing].			
Function Button	Check [Load], [First Page], [Total Page], [Page Up], [Page Down], [Last Page], [Ratio], and [Rotations], then click Set as default description . You can also set the width and height of the buttons.			



PDF View					×
Preview (1) (2) State: 0 Value Language: Language1 V Element description: PDF View_002	Main Main-2 Memory Read Address: None Read Offset Address None	Function Button	Detail Save in: String Length: (4)	[

Figure 14.6 [Main] property page for the PDF View display content element

No.	Property	Function description
(1)	Read Address	 You can select the internal memory or the controller register address. Select Link Name or Element Style. If you choose the [Read Address] setting, you need to create a Character Entry element and set the [String Length] for the PDF file to display on the HMI.
(2)	Read Offset Address	Please refer to Appendix D in the DOPSoft User Manual for instructions on writing and reading the offset address.
(3)	Save in	You can select USB Disk or SD Card as the storage device. When you save the PDF file in the USB Disk or SD Card, the HMI can read the PDF file from the storage device.
(4)	String Length	The [String Length] setting is mainly used with the Character Entry element. The length of the string determines the input file name of the PDF.



Main-2

PDF View			x
PDF View Preview State: 0	Main Main-2 Style Transparent: Animation: Anti-aliasing:	Function Button (1) (2) (2) (3)	
0 Language: Language1 Element description: PDF View_002			
		OK	Cancel

Figure 14.7 [Main-2] property page for the PDF View display content element

No.	Property	Function description
(1)	Transparent	You can set the transparency value within the range of 50 to 255. The default is 255. The smaller the value, the higher the transparency of the element.
(2)	Animation	The [Animation] function is not available for this element.
(3)	Anti-aliasing	The [Anti-aliasing] function is not available for this element.



PDF View		×
PDF View Preview (1) State: 0	Main Main-2 Function Button PDF View Function Key Function description Cload First Page Total Page Page Up Page Dp Page Down	(3) Default Font
Language: Language1 Element description: PDF View_002	Last Page Ratio	Set as default description (2)
(4)	Button Default Width 60 💌 Button Default Height 40 💌	OK Cancel

Function Button

Figure 14.8 [Function Button] property page for the PDF View display content element

No.	Property	Function description
(1)	Function Button	 These are function buttons for the display content, including [Load], [First Page], [Total Page], [Page Up], [Page Down], [Last Page], [Ratio], and [Rotations]. The [Load] function button and the [Display] function button for the File List are both used to read and display PDF files, but the way to use them are different. For the [Load] button, you need to manually enter the PDF file name and use the set [Read Address] to display the PDF file on the HMI. As for the [Display] button, you do not need to enter the PDF file name. To display the PDF file on the HMI, you only need to save the PDF file to a USB Disk or SD Card.
(2)	Set as default description	 Click this button to insert the default texts to the spaces above. [Total Page], [Ratio], and [Rotations] do not have default descriptions.
(3)	Default text	Click Set as default description to insert the default texts to the spaces. You can also enter user-defined texts.
(4)	Button Default Width and Height	You can adjust the width and height of the function buttons.



15. **Enhanced Recipe**

DOP-100 provides an enhanced recipe that combines with the multi-language input element to name the recipe group. Unlike the previous ENRCPG register address, the users had to remember the recipe content and other information. With the added ENRCPGNAME register address, you can enter the recipe name to call the recipe which is more user-friendly. Also, ENRCPGNAME names the group name in Unicode, so you can enter different languages. Therefore, please use the multi-language input element with the ENRCPGNAME register.

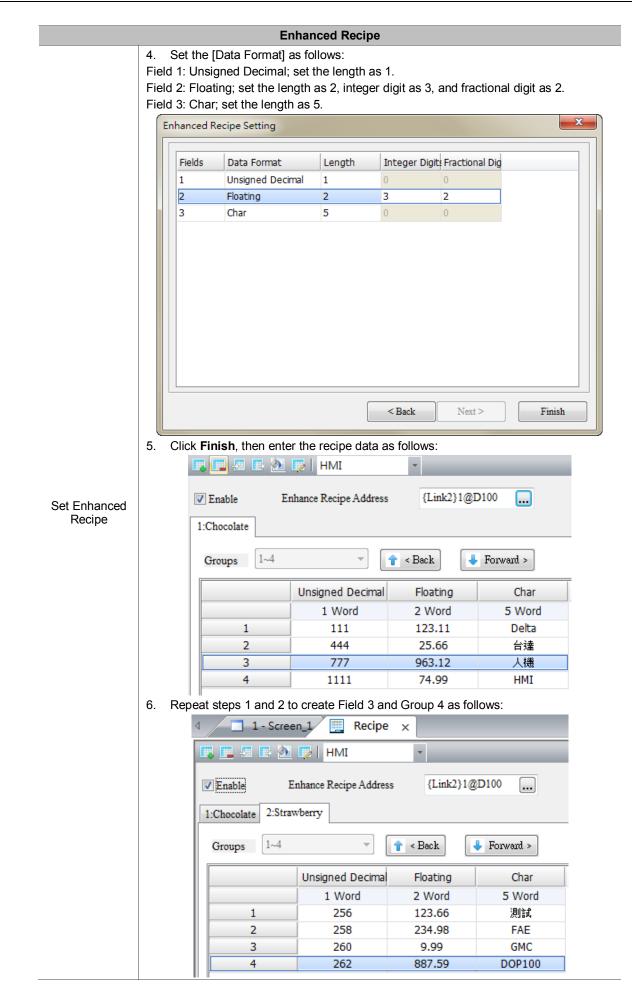
Please refer to Table 15.1 for the Enhanced Recipe example.



	Enhanced Recipe								
Please refer to the following steps:									
	 Go to [Options] > [Recipe] > [Enhanced Recipe]. Check [Enable] and set the [Enhanced Recipe Address] as D100. 								
	Imanced Recipe Address as Dirot. Imanced Recipe Addres Imanced Recipe Address as D								
	Enable Enhance Recipe Address {Link2}1@D100								
	2. Click is for the [Enhanced Recipe Setting] window.								
	Enhanced Recipe Setting								
	Name								
	Fields 1								
	Group 1								
Set Enhanced Recipe									
Recipe									
	< Back Next > Finish								
	3. Set the first recipe name as Chocolate, fields as 3, and group as 4.								
	Enhanced Recipe Setting								
	Name Chocolate								
	Fields 3								
	Group 4								
	<back next=""> Finish</back>								

Table 15.1 [Enhanced Recipe] example



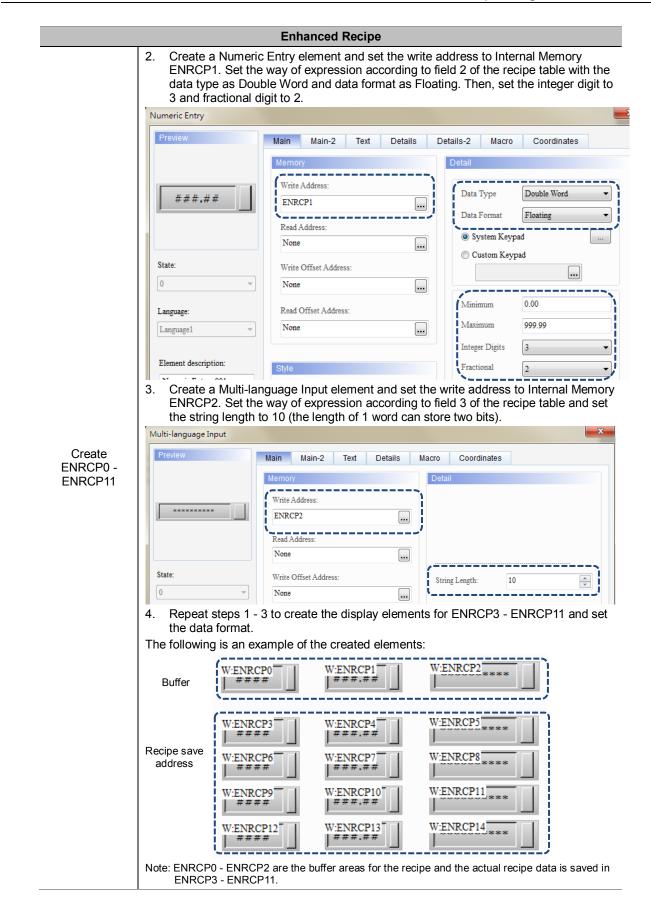


	Enhanced Recipe Please refer to the following steps: 1. Create a numeric entry element, set the write address to Internal Memory, and select ENRCPG as the Device Type. This element is mainly used for the selection o enhanced recipe group number.
	Link: Internal Memory
	Type Content
	Device (Word) Device Type ENRCPG
	Device (Bit) Address/Value
	Internal Memory (Word) Tag
	Constant
	B C D E F Clear
	Constant Types
	Signed Decimal 6 7 8 9 A Back
	Unsigned Decimal Hexadecimal Hexadecimal Enter
	0 : + - /
	Station No.
	1 _ V Default _ None
	The following is an example of the created element:
_	W:ENRCPG
Create ENRCPG and	ENRCPG
ENRCPGNAME	 Create a Multi-language Input element, set the string length to 10 and write address to Internal Memory, and select ENRCPGNAME as the Device Type. This element is mainly
	used for inputting the recipe name to select the enhanced recipe group number.
	Multi-language Input Preview Main Main-2 Text Details Macro Coordinates
	Memory Detail
	Write Address: ENRCPGNAME
	ENRCPGNAME
	Link: Internal Memory
	State: 0 Type Content
	Language: Device (Word) Device Type ENRCPGNAME
	Language1
	Element description: Multi-language Input .002 Constant
	Constant Types B C D E F Clear
	Signed Decimal 6 7 8 9 A Back
	Hexadecimal
	0 : + - /
	0 The Default None
	The following is an example of the created element:
	ENRCPGNAME

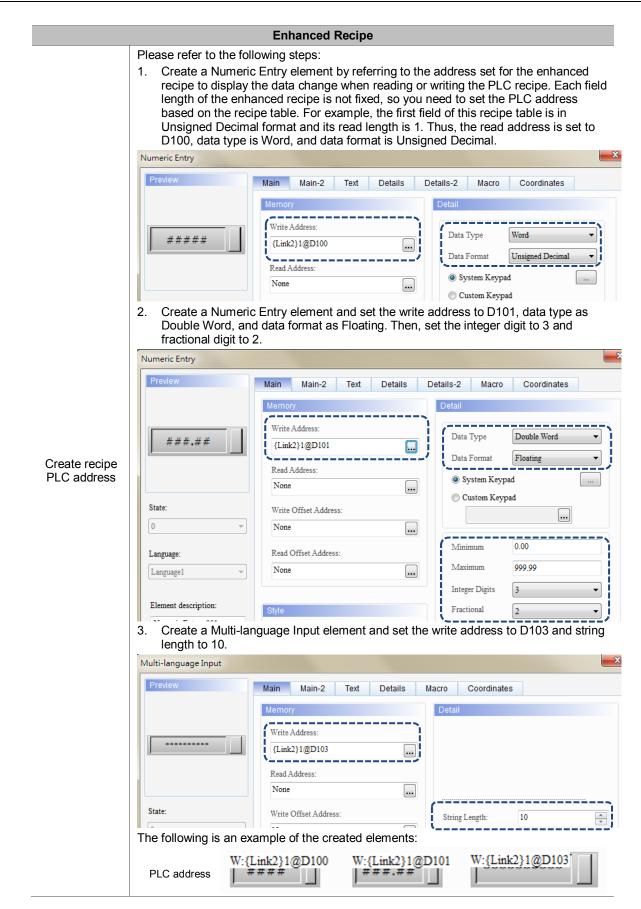


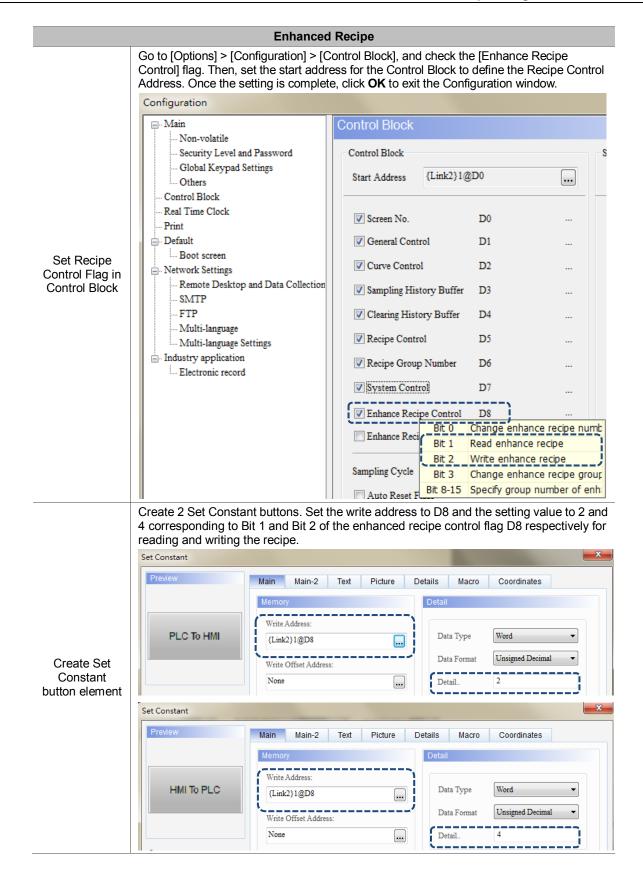
	Enhanced Recipe
	3. Create a Numeric Entry element, set the write address to Internal Memory, and select ENRCPNO as the Device Type. This element is mainly used for the selection of enhanced recipe group.
	Input
	Link: Internal Memory
Create ENRCPNO	Type Device (Word) Device (Bit) Internal Memory (Word) Internal Memory (Bit) Constant Constant Constant Signed Decimal Unsigned Decimal Unsigned Decimal Hexadecimal Station No. Default
	The following is an example of the created element: ENRCPNO ENRCPNO
Create ENRCP0 - ENRCP11	Before the Numeric Entry element is created to display the enhanced recipe register, you can use the recipe register formula [(L*(G+1)-1))] to calculate the number that n in ENRCPn represents. Plug the size of the recipe (Length (L) x Group (G) = 3 x 3) into the formula to gain ENRCPn = ENRCP0 - ENRCP11. Please refer to the following steps: Create a Numeric Entry element and set the write address to Internal Memory ENRCP0. Set the way of expression according to field 1 of the recipe table with the data type as Word and data format as Unsigned Decimal. Numeric Entry Wain Main-2 Text Details Details-2 Macro Coordinates Word Unsigned Decimal Unsig



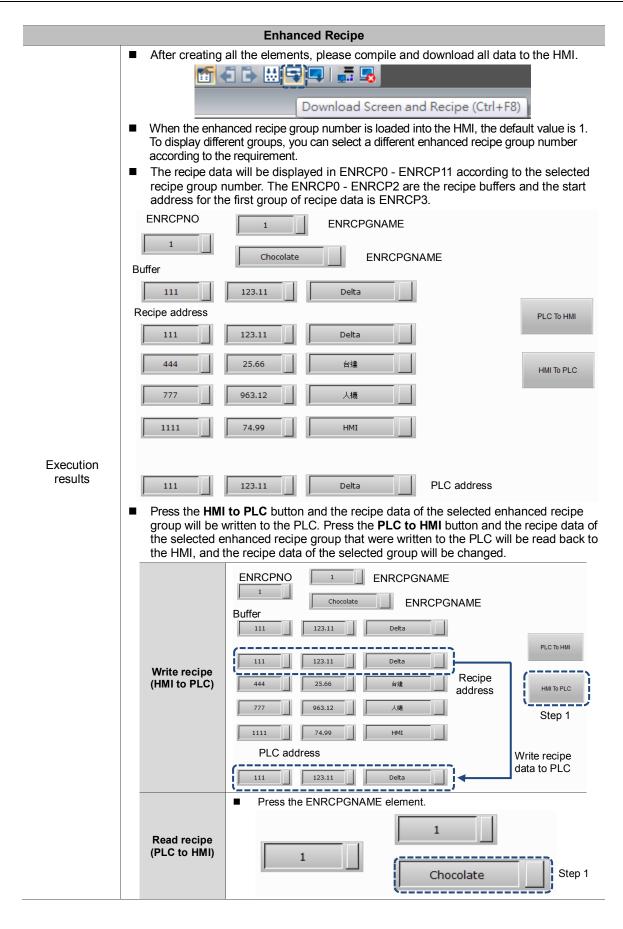


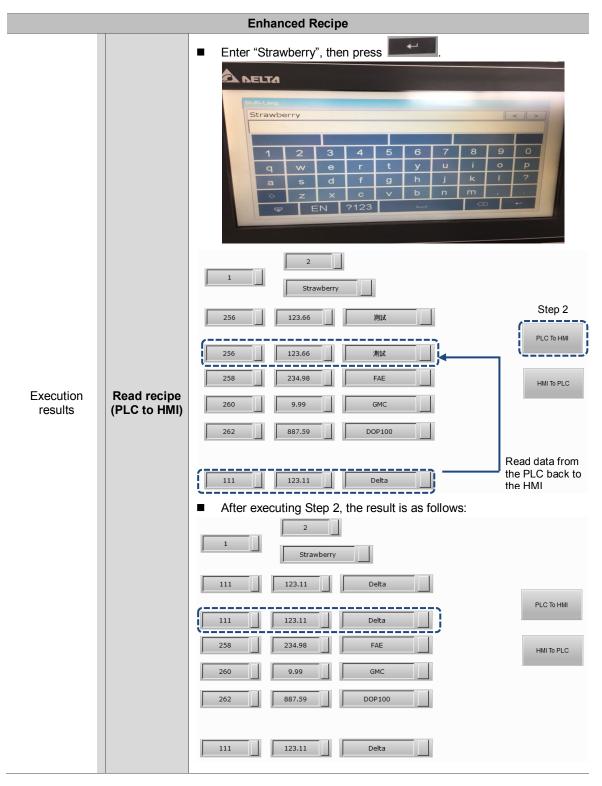












The following section introduces the property settings for the enhanced recipe.

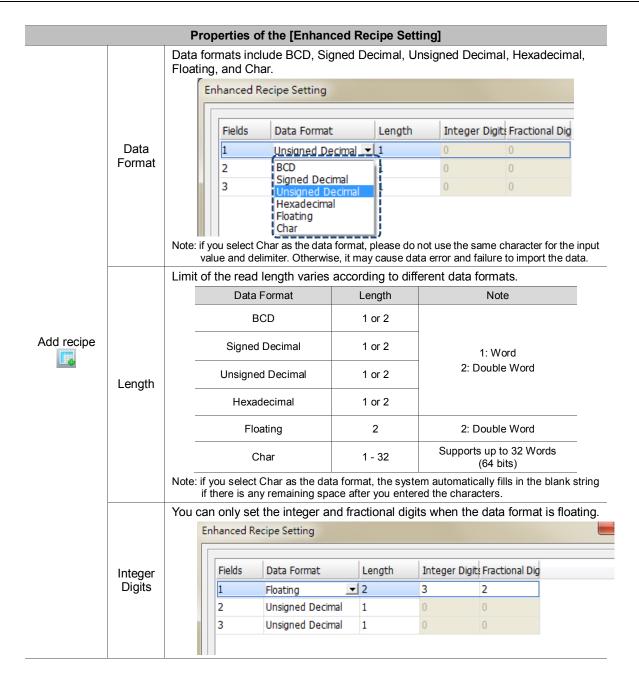


		Prope	rties of the [E	nhan	ced R	ecipe	Settin	ng]				
	٩	Recipe ×										
	I , I -	I B Ø D	HMI		*							
	Enable	Enha	nce Recipe Addres	s	None							
Enable	enhance	ed recipe will	se the enhance not take effect memories incl	t. ude ⊦	IMI, U					all setti	ngs for the	
			4 🧾 F	Recip	• ×							
Non-volatile			Enable	e 2	Enhan	HN HN Ice USI SD						
	 If you You Sele Add 	ou select to s can select tl ect Link Nam resses set b up numbers o	110 can be se ave in the HMI he internal mer e or Element S y the enhance of the recipe.	l, the o mory o Style.	data is or the	save contro	d in the	e HMI gister	ROM addre	when p ss.	less of the	
		Input									×	
		Link: Type	Link2 Internal Memor Internal Param									
		Device (Link2 Word)	De	evice Typ	be X					_	
		🔘 Device (I	Bit)		idress/Va							
Address			Memory (Word)	Та	g						-	
		Constant	Memory (Bit)	-							_	
		Constant Type	es		в	с	D	E	F	Clear		
		Signed D			6	7	8	9	A	Back	1	
		 Unsigned Hexadeci 			1	2	3	4	5		1	
		Station No.			0	:	+	-	1	Enter		
			Default					None	9			

Table 15.2 Properties of the [Enhanced Recipe Setting]

		Properties of the [Enhanced Recipe Setting]
		e [Enhanced Recipe] window, click 💷 to add enhanced recipe data. add 255 groups of enhanced recipe data.
	En	hanced Recipe Setting
		Name I Fields 1 🔭 Group 1
		<back next=""> Finish</back>
Add recipe	Name	 You can name the enhanced recipe group and the use of Unicode characters is supported. With the multi-language input element, you can enter the name of the enhanced recipe to call the recipe. The following example shows the first recipe group name in Japanese, the second recipe group name in Chinese, and the third recipe group name in English. Recipe × Fenable Enhance Recipe Address None Groups 1-4
	Fields	 The [Fields] and [Group] represent the recipe length and group that you entered respectively. The numbers in Fields X Group cannot exceed 256 X 10000. Warnning Not enough physical memory!
	Group	 The numbers in [Fields] and [Group] cannot be 0. If any of the value is 0, the system will automatically set the value to the minimum which is 1.

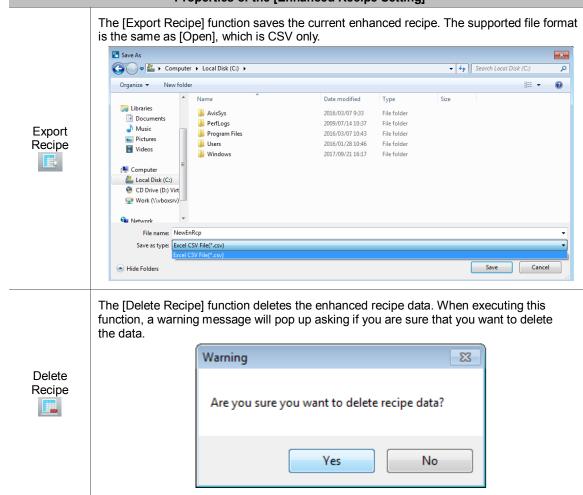






		Properties of the [Enhanced Recipe Setting]
		When the data format is floating, the integer and fractional digits support only
		7 digits in total. When exceeding this limit, a warning message pops up.
		Enhanced Recipe Setting
		Fields Data Format Length Integer Digits Fractional Dig
		1 Floating 2 7 2
		2 Unsigned Decimal 1 0 0
		3 Unsigned Decimal 1 0 0
		DORSA#
Add recipe	Fractional	DOPSoft 25
	Digits	
		Integer Position or Fractional Position is incorrect.
		ОК
		<back next=""> Finish</back>
	■ The [Im	port Recipe] function only supports CSV file format for you to select and import the
	recipe.	
	🕓 Open	
		Computer > Local Disk (C:) >
		New folder III III III III III III III III III I
	🔀 Favorites	AvisSys 2016/03/07 9:33 File folder
	🐞 Downloads 🔛 Recent Plac	PerfLogs 2009/07/14 10:37 File folder es Program Files 2016/03/07 10:43 File folder
	🥽 Libraries	Users 2016/01/28 10:46 File folder Windows 2017/09/21 16:17 File folder
	Documents	
	Pictures	
	_	
	P Computer	
Import	🧐 CD Drive (D	
Recipe		File name:
- <u>1</u>	The sec	
		ened and imported recipe file provides the recipe data content only and the address does not support loading the 16- or 32-bit set address. If you use the
	enhanc	ed recipe to open the CSV file of the 16- or 32-bit recipe, the recipe data is
	unable	to display and an error message will pop up.
		Warning 🗾
		Failed with error 0: The operation completed successfully.
		Please also check the csv separator.
		ОК

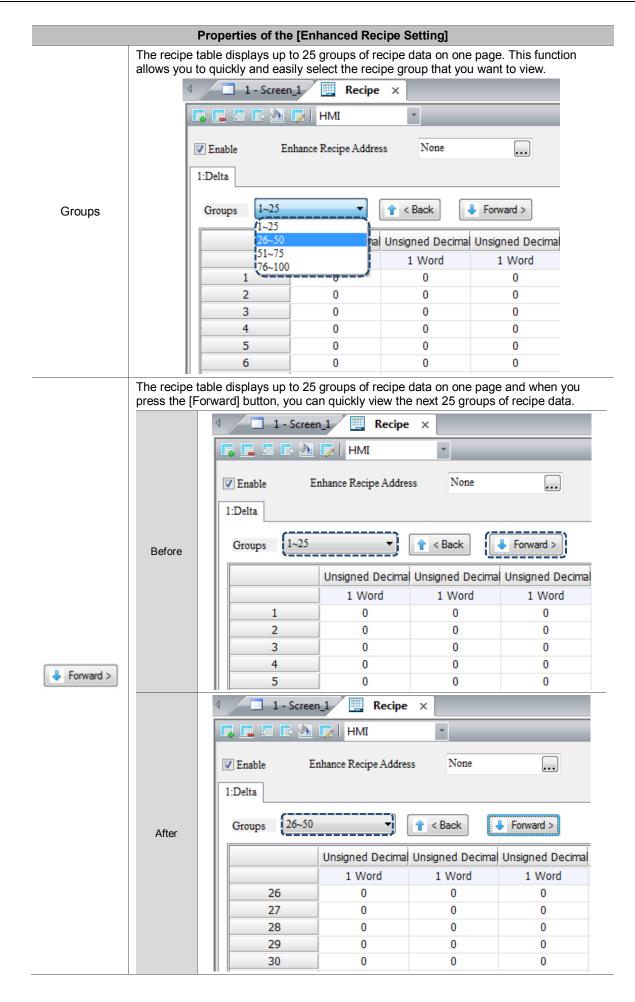


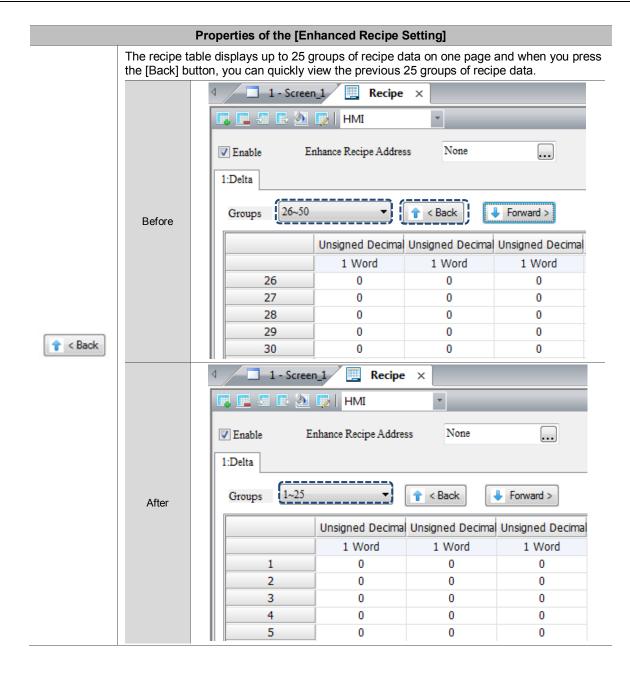




Clear Configuration		Properti	es of the [Enhanced Recipe Setting]
Clear Configuration Before cleaning Image: Clear clear c		Clear the recipe conte	ent that has the value entered.
Clear Configuration Before clearing Image: Clear clear cl			4 Recipe ×
Clear Configuration Unsigned Decimal Unsigned			Image: Solution of the sector of the sect
Clear Configuration Image: Configuration Image: Clear configuration Image: Clear configuration Image: Clear configuration Image: Clear configuration Image: Clear configuration Image: Clear configuration Image: Clear configuration Image: Clear configuration Image: Clear configuration Image: Clear configuration Image: Clear configuration Image: Clear configuration Image: Clear configuration Image: Clear configuration Image: Clear configuration Image: Clear configuration Image: Clear configuration Image: Clear configuration Image: Clear configuration Image: Clear configuration Image: Clear configuration Image: Clear configuration Image: Clear configuration Image: Clear configuration Image: Clear configuration Image: Clear configuration Image: Clear configuration Image: Clear configuration Image: Clear configuration Image: Clear configuration Image: Clear configuration Image: Clear configuration Image: Clear configuration Image: Clear configuration Image: Clear configuration Image: Clear configuration Image: Clear configuraticon Image: Clear configuration </td <th></th> <td>Before clearing</td> <td>Groups 1~4</td>		Before clearing	Groups 1~4
After clearing Image: Comparison of the section of	Configuration		1 1 2 3 2 4 5 6 3 7 8 9
After clearing Image: Croups Index Control on the setting of the [Enhanced Recipe Setting] take effect only when there is recipe on the enhanced recipe. You can use this function to change the name, field, group, and format of the recipe. Enhanced Recipe Setting Image: Control on the term of the term of the recipe. Enhanced Recipe Setting Image: Control on the term of the term of the recipe. Enhanced Recipe Setting Image: Control on the term of the term of the recipe. Enhanced Recipe Setting Image: Control on the term of term of the term of term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of term of the term of t	2		
After clearing 1:123 Groups 14 Unsigned Decima Unsigned Decima The settings of the [Enhanced Recipe Setting] take effect only when there is recipe of the enhanced recipe. You can use this function to change the name, field, group, and format of the recipe. Enhanced Recipe Setting Setting Name Fields 3			
Enhanced Recipe Setting			
Enhanced Recipe Setting Enhanced Recipe Setting		After clearing	Groups 1~4
Enhanced Recipe Setting Fields			Unsigned Decimal Unsigned Decimal
Enhanced Recipe Setting Image: Setting Image: Setting Image: Setting Image: Setting Image: Setting Image: Setting Image: Setting Image: Setting Image: Setting Image: Setting Image: Setting			
Enhanced Recipe Setting Enhanced Recipe Setting Enhanced Fields Image: Setting Image: Setting Image: Setting Image: Setting Image: Setting Image: Setting Image: Setting Image: Setting			
Enhanced Recipe Setting Enhanced Recipe Setting Enhanced Fields Setting			
Enhanced Recipe Setting			
<back next=""> Finish</back>	Recipe Setting	the enhanced recipe. Y format of the recipe.	hanced Recipe Setting] take effect only when there is recipe data in You can use this function to change the name, field, group, and data









16. Macro

DOP-100 provides three new macro commands as follows:

OPENSCREEN (open screen)

Expression	Meaning of variable		Note
	Var 1	Screen No.	
OPENSCREEN(Var1) (W)	Description of action		W: Word
	Open the screen number specified by Var 1.		

Variable		Туре	
	Internal memory	PLC register	Constant
Var 1	v	v	v

Example

Var 1 is the internal memory. When \$999 = 2, switch the screen to screen No. 2.

Macro Command	? ×
<u>E</u> dit <u>C</u> ommand	
1 1 4 fr + × #	
OPENSCREEN(\$999)	
Double Word Signed	
Command DPENSCREEN	
Variables Contents Description	
Var1 \$999 Screen No.	



CLOSESUBSCREEN (close sub-screen)

Expression	Meaning of variable		Note
	Var 1	Sub-screen No.	
CLOSESUBSCREEN(Var1) (W)	Descri	ption of action	W: Word
	Close the sub-scree	n number specified by Var 1.	

Variables		Туре	
	Internal memory	PLC register	Constant
Var 1	v	v	v

Example

Var 1 is the internal memory. When \$999 = 2, close sub-screen No. 2.

Edit <u>C</u> ommand ↑ ↓ ↓ ↓ ↓ ↓ # CLOSESUBSCREEN(\$999) Double Word Signed Command CLOSESUBSCREEN Double Word Signed Command Variables Contants	Macro Command	? X			
CLOSESUBSCREEN(\$999) Double Word Signed CLOSESUBSCREEN	<u>E</u> dit <u>C</u> ommand				
Double Word Signed Command CLOSESUBSCREEN	1 1 + ++ + × #				
CLOSESUBSCREEN	CLOSESUBSCREEN(\$999)				
	Double Word Signed				
Variables Contents Description	Command DCLOSESUBSCREEN				
valables concertes Description	Variables Contents Description				
Var1 \$999 Subscreen No.	Var1 \$999 Subscreen No.				



VAR (variable)

Expression	Meaning of variable		Note
	Var 1	Variable name	
VAR Var1 (W)	Description of action		W: Word
	Specify a name as th	e global variable.	-

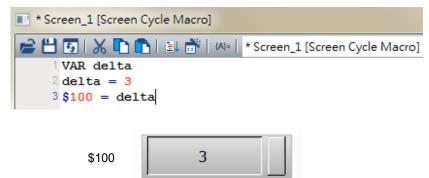
Variables		Туре		
	Internal memory	PLC register	String	Constant
Var 1			V	

Example

Var 1 is the string. Declare delta as the variable.

Macro Command	2 ×			
<u>E</u> dit <u>C</u> ommand				
VAR delta				
Double Word	Signed			
Command VAR				
Variables Contents	Description			
Var1 DELTA	Variable Name			

Assign value 3 to delta, then move the delta value to \$100 and execute \$100 = 3.





17. Multi-language Input

The multi-language input function supports up to 16 languages and you can decide the input methods for editing the display texts.

Go to [Options] > [Configuration] > [Multi-language Settings] to check the preferred languages. Then, with the [Multi-language Input] element in the [Entry Element], you can use the multi-language input function.

Configuration						
- Main	Multi-language Setti	ngs				
Non-volatile Security Level and Password						
Global Keypad Settings	Support Langs					
Others Control Block	English		🔲 Japan	Persian		
	Traditional Chinese		Spanish	Italian		
Print	Simplified Chinese		Portuguese	Polish		
- Default	French		India	Korean		
Boot screen	German		Turkish			
- Remote Desktop and Data Collection	Russian		Arabic			
SMTP						
FTP Multi-language	Default Input	System default]			
Multi-language Settings						
 Industry application 	Default Font	Arial	•			
Electronic record						
4 III >						
					OK	Cancel

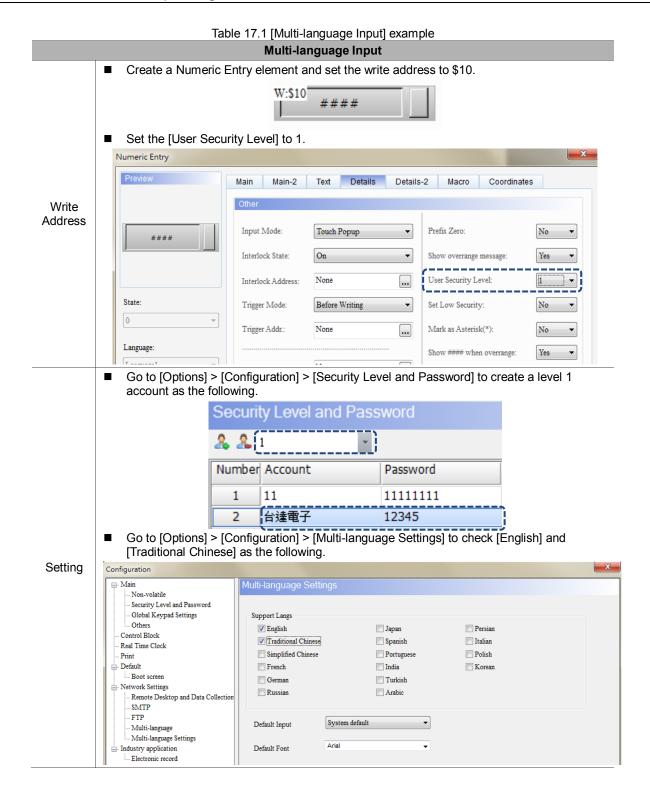
Figure 17.1 Multi-language Input

The Multi-language Input element provides functions different from DOP-W, which combines enhanced recipe group naming, enhanced recipe Char format, account input, so that you can input Unicode characters for the names and content.

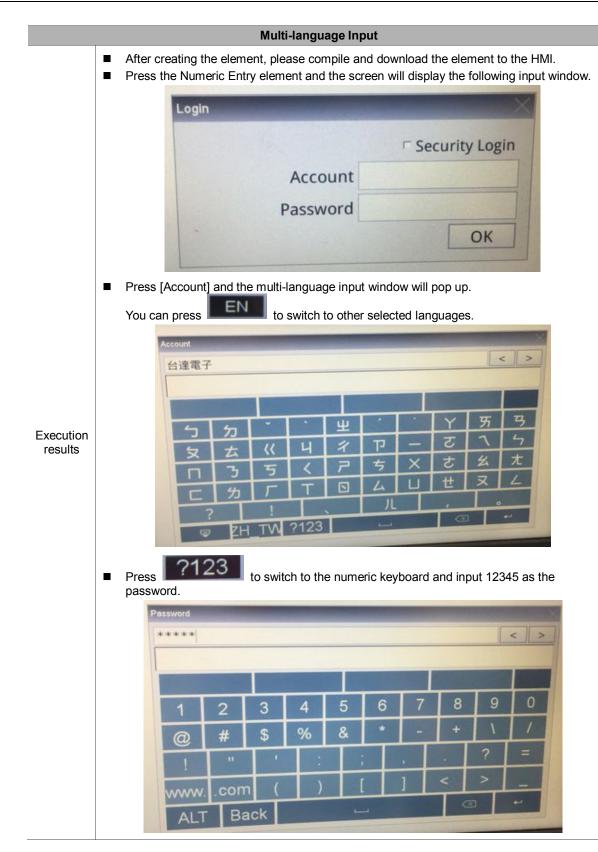
Note: the Multi-language Input function does not support online and offline simulations.

Please refer to Table 17.1 for the Multi-language Input example.











			Multi-lan	guage In	put			
	Press C	K to use the N	umeric Entr	y element				
		Login						\times
					1	Secu	rity Log	in
			Ac	count				
			Pass	sword				
		-				[ОК	Ī
Execution results		0	Numeric Ke	vpad				
			0~9999					
			1	2	3	D	EL	
			4	5	6	<	>	
			7	8	9	CI	R	
			+/-	0		EN	π	
		Section 1						



217

18. Animated Boot Screen

Table 18.1 Configuration - Boot screen

	[Configuration] - [Default]
Configuration	
	atile Level and Password Keypad Settings Picture Bank Name None .
Others Control Blo Real Time C Print Default Boot scr Network Sel Sel SMTP FTP Multi-la	ck lock lings Desktop and Data Collection linguage linguage Settings plication
•	™ ► OK Cancel
	 After you check [Enable], you may select the boot screen from the picture bank.
-nable	 To use files not in the picture bank, you can import the image files into the picture ban If you select a GIF image file and the gray circle below appears as that the GIF preview is available on the software.
	When the [Boot screen] is enabled, you can replace the HMI boot screen from [Tools] > [Download Boot Screen]. Or you can use [Download All Data] to download the boot screen Note:
	1. After downloading the boot screen, please cycle power on the HMI.
	2. Supported image file formats include BMP, JPG, GIF, ICO, and PNG.



19. NTP

		[Configuration] - [Netw	vork Settings]
Configuration	n		×
Globa Other Control B Real Time Print Default Boot : Network	volatile ty Level and Password I Keypad Settings L s lock : cClock :	ocalhost HMI Upload/Download port Modbus TCP Server Port Enable Ethernet/IP Time zone	HMI 12346 -
- SMTI - FTP - Multi - Industry : - Electr	e -language -language Settings application onic record	UTC+08:00) 台北 Enable NTP Serve Calibration when Calibration at set interv	r Name tock.stdtime.gov.tw •
	III •		OK Cancel
	Enable NTP		NTP], the HMI can correct its time according to enable NTP, please make sure the HMI network is
NTP	Server Name	You can select the serve server name.	r provided by the software or enter a local NTP
	Calibration when startup	When you check [Calibra booting.	tion when startup], the HMI correct its time when
	Calibration at set intervals	is the timing of the correct	ion at set intervals], set the seconds. This setting ction after the HMI starts. The default is 180 seconds and maximum is 99,999 seconds).

Table 19.1 Configuration - Network Settings



20. Network application

Table 20.1 Configuration - Remote Desktop and Data Collection

[Configuration] - [Network Settings]

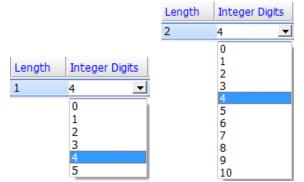
Remote Deskt	top						×
Configuration		Pomoto Do	sktop and D	ata Collection			
Non-volatile				ata Collection		_	
Security Leve Global Keyp	el and Password ad Settings	A Remo	te Desktop	Real-time Monito	oring		
Others		eServer					
Control Block Real Time Clock			Enable	Password	12345678		
Print			Sampling time		100 (ms)		
Boot screen			Port		12348		
- Network Settings Remote Desk	top and Data Collection		Show warn	ing when disconnected	1		
SMTP			Close	warning window when	the connection is restored		
FTP Multi-languag	ge						
Multi-languag							
Electronic rec							
		VNC	_				_
			Enable	Password	12345678		
			Port		5900		
•	4						
						OK	Cancel
L							
VNC							
					remotely monitor ar		
		•			nd real-time screens	-	
					must support Java i .7.0 45 or below.	nstallation,	otherwise it
Enable					ate the HMI by VNC		
Password	-	-	•	•	assword is 1234567		
1 4350014					ftware connection p		you pood to
					ell when connecting		
	-				software connection		
					ind you to change th	ne connectio	on port after
	you dow	nload the s	screen to t	he HMI.			
		The por	rt has beei	n occupied by	y VNC Http Server.	\sim	
		(i)	Please cl	hange the setti	ing of VNC Server po	rt!	
Port		~~ ~					
					C)K	
			or web er	oration all :	you pood to do io or	tor the UN4	ID Address in
					you need to do is en ou can open the com		
	connecti	on port def	fault is not	5900, pleas	e enter 5800 for the	connectior	
	operatin	g with the b	prowser. F	or example	http://192.168.123.1	<u>48:5800</u> .	



Real-time Monitoring				
Configuration				×
Main Non-volatile Security Level and Password Global Keypad Settings Others Control Block Real Time Clock Print Default Boot screen Network Settings Remote Desktop and Data Collection SMTP FTP Multi-language Multi-language Settings Industry application Electronic record	Remote Desktop an Remote Desktop an Enable real-time mori General Settings Items per Page 1 NO Name Add	Real-time Monitoring	12345678 30 Treational Integer De Fractional I	
			OK	Cancel

[Configuration] - [Network Settings]

- Network real-time monitoring allows you to write values from the web page to the HMI; or when you write values to the HMI, you can monitor the values from the web page.
- The real-time monitoring interface provides multiple data formats. Supported data formats include BCD, Signed, Unsigned, Hex, Floating, and Char.
 - Data Format Unsigned Signed Unsigned Hex Floating Char
- You can set the read length of each data format to determine whether to read Word or Double Word. When the read length is 1, the integer can be set up to 5 digits, meaning the data format is Word; when the read length is 2, the integer can be set up to 10 digits, meaning the data format is Double Word.

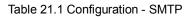


Word and Bit are provided for the address input, and supports internal memory address and external PLC address.

	[Cont	figuration]	- [Network	Settings]			
 How to set up netw Enter <u>http://[HMI II</u> Enter the network a the HMI through the 	P]/RemoteMon/ application passw	on the brow	ser. Then,	you can se	e the follow	ing login so	creen.
Smarter, Greener, Together,	Delta I	HMI Ren	note Mo	nitoring	J		
	Passw	ord: Sub	mit				
Enable real-time monitoring	Check [Enable	real-time m	ionitoring] t	o add and o	delete moni	itoring addr	esses.
	Click 📑 to a	dd a new m	onitoring a	ddress.			
Add monitoring	NO Name	Address	Data For				ctional Digits
address	Image: None Unsigned Word 2 4 0 You can name the input address with the maximum length of 30 characters.						
		1			1	1	
	NO Name 1 台達	Address \$100	Data For Unsigned		Length Int	teger Digits Fi	actional Digits
	2 Delta	{Link2}1@D10	Unsigned		1 4	0	
Delete monitoring address	Select the num	ber of moni	toring addr	ess for dele	etion, then a	click 📑 te	o delete it.
Import CSV content	After making cl monitoring add			CSV file c	ontent, clicl	k to in	port the
	Export the mor	nitoring add	ress conten	t as a CSV	í file.		
	Real contro	I.csv ×					
Export CSV content	A	В	С	D	E	F	G
	1 Define Nat		Memory Fo		Read Coun	_	Fraction
	2 台達 2 Dalta		Unsigned Unsigned		1	5	0
	3 Delta	1	Unsigned		1	3	0
Password		t password enter the co password.			he web pa	ge, it requir	es you to
Items per Page		et the numbe t is 10 addre).		-		•	
Update Frequency (s)		e frequency is 30 secor				•) seconds).



21. SMTP



	[Configurat	tion] - [Network Settings	5]		
Configuration					×
	SMTP				
Non-volatile Security Level and Password Global Keypad Settings	Enable Mail Host				
Others Control Block	Mail Host Information				
Real Time Clock	Server IP	Domain Name			
Print		0.0.0.1			
⊡- Default Boot screen	Server Port	25			
- Network Settings	5011011011	25			
Remote Desktop and Data Collection 	Sender Address				
- Multi-language 	SSL Encrypted Trans	mission			
	Enable Security Auther	entication			
	Account				
	Password				
	Time zone				
	(UTC+08:00) 台北	•			
4					
				OK Cance	el 📃
a destination address, an DOPSoft provides the SI	g messages. SMT nd it controls how MTP function to no	P is a set of rules for send the message is transferre otify you with an email v	ed. when an alarn	n occurs.	
recipient email and other				igsj to till in the	
🖻 🛍 💌 茎 差 🛛 12 🛛 🝸 Ar	ial	- 100% - 💽 🗐 📪 😂	\$		
Detail Properties					
No. Message Content	Category Trigger Condi	ition Monitor Address	Text Color	Alarm Screen	Mail

None

0 On

RGB(0, 0, 0)



1

....

None

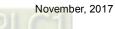
	[Configuration] - [Network Settings]	
Mail		
	Tina.Q.Lee@deltaww.com	
Cc:	Daisy.Huang@deltaww.com	
Bcc:	Ray.Tien@deltaww.com	
Subject:	12345	
	Attach current screen	
test 123		*
		-
•		Þ.
		OK Cancel

To enable SMTP, please check [Enable Mail Host], then you can set the server IP address, server port, and security authentication of the account and password.

Server IP	Before using the SMTP fur		Name]
Server Port	The default server port is 25 w	hich is the general SMTP communication p	ort.
Sender Address	Please fill in the sender's mail a	address.	
SSL Encrypted Transmission	 SSL is short for Secure Sockets Layer which provides secure transmission over the Internet. SSL was first proposed by Netscape with the goal of ensuring the confidentiality and integrity of the communication between two applications, as well as to verify the identity of the server. To use SSL encryption, your e-mail must also support this feature. Gmail itself also requires SSL encryption. To send a message using Gmail, you need to make the following settings. 		



	[Configuration] - [Network Settings]
	1. Sign in to your Gmail account, then click [My Account].
	III O QA
	QA Ele eleqa7@gmail.com Privacy My Account
	2. Select [Sign-in & security].
	Welcome, QA Ele Control, protect and secure your account, all in one place
	My Account gives you quick access to settings and tools that let you safeguard your data, protect your privacy and decide how your information can make Google services work better for you.
	Image: Sign-in & security Image:
	Control your password and Google Account access. Manage your visibility settings and the data we use to personalise your experience. Set language, accessibility, and other settings that help you use Google. Signing in to Google Your personal info Language & Input Tools Device activity & security events Manage your Google activity Accessibility Connected apps & sites Ads Settings Your Google Drive storage
SSL Encrypted Transmission	Security Check-up Control your content Delete your account or services Protect your account in just a few minutes by reviewing your security settings and activity. Privacy Check-up Take this quick check-up to review important privacy settings, and adjust them to your preference. Delete your account or services
	Last check-up: 4 November 2016 GET STARTED Find your phone My Activity Whether you forgot where you left it or it was stoken a few steps may help secure your phone or tablet. My Activity GET STARTED Discover and control the data that's created when you use Google services GO TO MY ACTIVITY
	3. Go to the bottom of the page and enable [Allow less secure apps]. Connected apps & sites Keep track of which apps and sites you have approved to connect to your account, and remove those which you no longer use or trust. Apps connected to your account Make sure that you still use these apps and want to keep them connected.
	MANAGE APPS Saved passwords
	You have no synced passwords. LEARN MORE
	Allow less secure apps: ON Some apps and devices use less secure sign-in technology, which could leave your account vulnerable. You can turn off access for these apps (which we recommend) or choose to use them despite the risks.
	After completing the above steps, you can use Gmail to receive alarm messages.
Enable Security Authentication	 Before enabling the security authentication function, you must check [Enable Mail Host] first to set the account and password. If you have set the authentication of the account and password when setting up the SMTP server, you need to check this option.



	[Configuration] - [Network Settings]
Account	The account and password are based on the account and password required by th SMTP server. When you set up the SMTP Mail Server, you must first enter a set of account and password if you checked the [Enable Security Authentication] option. This set of account and password is used to check whether the recipient is a legitimate backend email user. This avoids unattended emails taking up spaces in the system and creating potential security issues.
Password	 Please note that the format of the account will be different because of the different formats required by each SMTP Mail Server. Please ask your MIS regarding the guidelines.
	The HMI provides a time zone feature that allows you to select the local time zone so that the HMI does not have time differences between places and the time it sends the alarm message is also more precise.
	(UTC+08:00) Taipei
Time zone	(UTC+08:00) Taipei (UTC+08:00) Ulaanbaatar (UTC+09:00) Osaka, Sapporo, Tokyo (UTC+09:00) Seoul (UTC+09:00) Yakutsk (UTC+09:30) Adelaide (UTC+09:30) Darwin (UTC+10:00) Brisbane (UTC+10:00) Brisbane (UTC+10:00) Canberra, Melbourne, Sydney (UTC+10:00) Guam, Port Moresby (UTC+10:00) Hobart (UTC+10:00) Hobart (UTC+10:00) Vladivostok (UTC+11:00) Magadan
	(UTC+11:00) Solomon Is., New Caledonia (UTC+12:00) Auckland, Wellington (UTC+12:00) Fiji (UTC+12:00) Fetropavlovsk-Kamchatsky - Old (UTC+12:00) Nuku'alofa (UTC+01:00) Azores (UTC-01:00) Cape Verde Is. (UTC-02:00) Coordinated Universal Time-02 (UTC-02:00) Mid-Atlantic - (UTC-03:00) Buenos Aires (UTC-03:00) Greenland (UTC-03:00) Montevideo (UTC-03:00) Newfoundland



22. FTP

Configuration			X
⊡-Main Non-volatile	ТР		
Security Level and Password Global Keypad Settings	Enable FTP host func	tion	
Others Control Block Real Time Clock	FTP Host Port	21 (1~65535)	
- Print	Account		
Boot screen	Password		
- Remote Desktop and Data Collection - SMTP - FTP - Multi-language	Root Dir	USB Disk 🔻	
Multi-language Settings Industry application Electronic record	Anonymous		
Liectiviite feeris			
< •			

Table 22.1 Configuration - FTP

The FTP Server function allows you to download the alarms, history data, recipes, and operation logs saved in the USB Disk or SD Card through the Internet to read on the PC; you can also upload the files in the PC to the USB Disk or SD Card.

FTP rules	Description			
Supported HMI	Net-based HMI			
	File transfer softwar	File transfer software		
Supported connections	Windows Explorer	Windows Explorer		
	DOS Command Lin	e		
Connection limit	Allows 3 FTP clients	s to connect at the same time		
Connection minit	Automatically disco	Automatically disconnects when the idle time is over 90 seconds		
		Unable to add directories		
	Anonymous login	Unable to upload files		
		Unable to download files		
		Unable to delete files		
Login mothod		Can change file names		
Login method		Can add directories		
		Can upload files		
	Account login	Can download files		
		Can delete files		
		Can change file names		

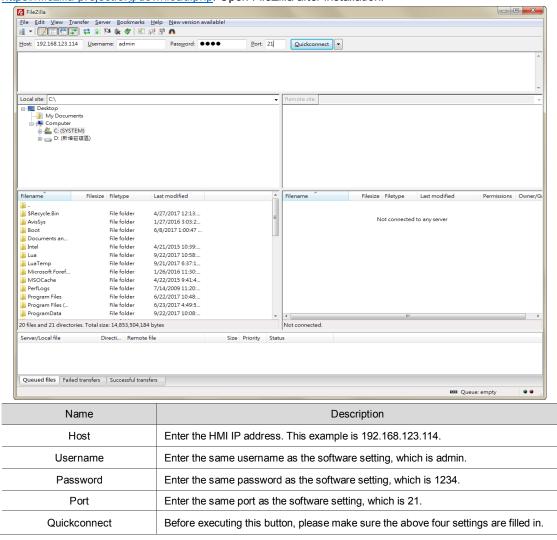


[Configuration] - [Network Settings]		
FTP rules	Description	
	Unlimited traffic	
	Supports resume download	
	Unlimited transfer file size	
	Maximum file name length is 260 bytes	
File transfer rules	Can change file names	
	Supports Chinese file names	
	Encryption is not supported	
	Supports active mode / passive mode connection	
	When the FTP is transferring files, you can access the system directory	

The FTP supports three connection methods. Please refer to the following for more information.

1. File transfer software

You need to use an FTP client software to upload or download files from the FTP Server provided by the HMI, or use the Windows Explorer or DOS Command line to connect to the FTP Server. The file transfer software in this example is FileZilla. This is a free software which you can download from: https://filezilla-project.org/download.php. Open FileZilla after installation.





[Configuration] - [Network Settings]

2. Windows Explorer

Open Windows Explorer, enter <u>ftp://192.168.123.114/</u>, then enter the account and password to log in to the FTP.



Once you are logged in, you can see all the files in the USB Disk.

Organize 🔻					
 ✓ Favorites ■ Desktop ↓ Downloads ↓ Recent Places 	HMI File folder System Volume Information File folder	PPT File folder 5014031202-EN.pdf	Screen File folder		
 ▲ □ Libraries ▶ □ Documents ▶ ▲ Music 	DELTA JA-HMI_DOPSoft-4-00-01-0 0_SW_TC-SC-EN-SP_20170420.zip	interfaces			

3. DOS Command Line

Enter <u>ftp 192.168.123.114</u> in the command prompt, then enter the account (admin) and password (1234) to connect to the FTP.



[Configuration] - [Network Settings]						
In the ftp comma	In the ftp command, you can enter "help" to see the supported commands.					
🔤 Administrato	r: C:\Windows\system32\ci	md.exe - ftp 192.168.1	23.114		x	
Connected to 220 Welcome User (192.1) 331 Pleases Password: 230 Login so ftp> help	na>ftp 192.168.123 o 192.168.123.114. to Delta HMI FTP 68.123.114:(none)) specify the passwo uccessful. y be abbreviated.	service. : admin ord.			4 III	
! ? append ascii bell binary bye cd close ftp>	delete debug dir disconnect get glob hash help lcd	literal Is mdelete mdir mget mkdir mls mput open	prompt put quit quote recv remotehelp rename rmdir	send status trace type user verbose		
Enter "dir" command to see the list of all the files currently in the USB Disk.						

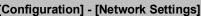
ftp> dir						
200 PORT comm	nand succes	sful. Co	nsider using	g PASV.		
150 Here come	es the dire	ctory li	sting.			
-rwxrwxrwx	10	Ø	409294	Feb 09	13:35	5014031202-EN.pdf
-rwxrwxrwx	10	Ø	435	Dec 19	2016	Alarm_Initial-Macro.txt
-rwxrwxrwx	10	Ø	442699749	9 Apr 2	0 09:33	3 DELTA_IA-HMI_DOPSoft-4-
00-01-00_SW_1	C-SC-EN-SP	_2017042	0.zip			
drwxrwxrwx	30	Ø	4096	Jun 22	11:30	HMI
drwxrwxrwx	20	Ø	4096	Apr 24	20:15	PPT
drwxrwxrwx	30	Ø	4096	Apr 24	14:16	Screen
-rwxrwxrwx	10	Ø	64	Jun 22	11:31	interfaces
226 Directory	y send OK.					

If you want to download files from the USB Disk or SD Card, enter "get" command. If you want to upload files to the USB Disk or SD Card from the PC, enter "put" command.



[Configuration] - [Network Settings]				
he following introduces the property settings for the software interface.				
Configuration				
Won-volatile Security Level and Password Global Keypad Settings	TP	tion		
Control Block	FTP Host Port	21 (1~65535)		
Print	Account	admin		
Boot screen	Password	1234		
Remote Desktop and Data Collection SMTP FTP	Root Dir	USB Disk		
Multi-language Multi-language Settings Industry application Electronic record	📝 Anonymous			

Enable FTP host function	Check this option to use the FTP function.	
FTP Host Port	The FTP Host Port default is 21.	
Account	You can enter the account name you want to use.	
Password	You can enter the password you want to use.	
Root Dir	The root directory is the location where the HMI files are stored. The default is USB Disk. You can also select SD Card as the storage location.	
Anonymous	If you check this option, you can access the FTP without logging in with an account.	
Allohymous	If you access the FTP anonymously, you cannot upload / download files, delete files, or add directories.	



23. Multi-Lang input character count calculation

This feature allows the user to know the exact total bytes of the input characters. The number of bytes for different languages varies, so errors may occur when calculating the length. This tool can let you calculate the correct number of bytes for Unicode characters.

Multi-Lang input character count calculation				
Input				
Result	0 bytes	Clear		

Figure 23.1 Multi-Lang input character count calculation tool

The following examples are the calculations of the byte numbers for the three languages.

	Multi-Lang input character count calculation				
Traditional Chinese	Input Result	台達電子 12 bytes	Clear Close		
	Multi-Lang in	out character count calculation			
English	Input	delta			
	Result	5 bytes	Clear Close		
)		
	Multi-Lang in	out character count calculation			
Japanese	Input	あいし			
	Result	9 bytes	Clear Close		
]		

Table 23.1 Multi-Lang input character count calculation result

